

FIG. 1

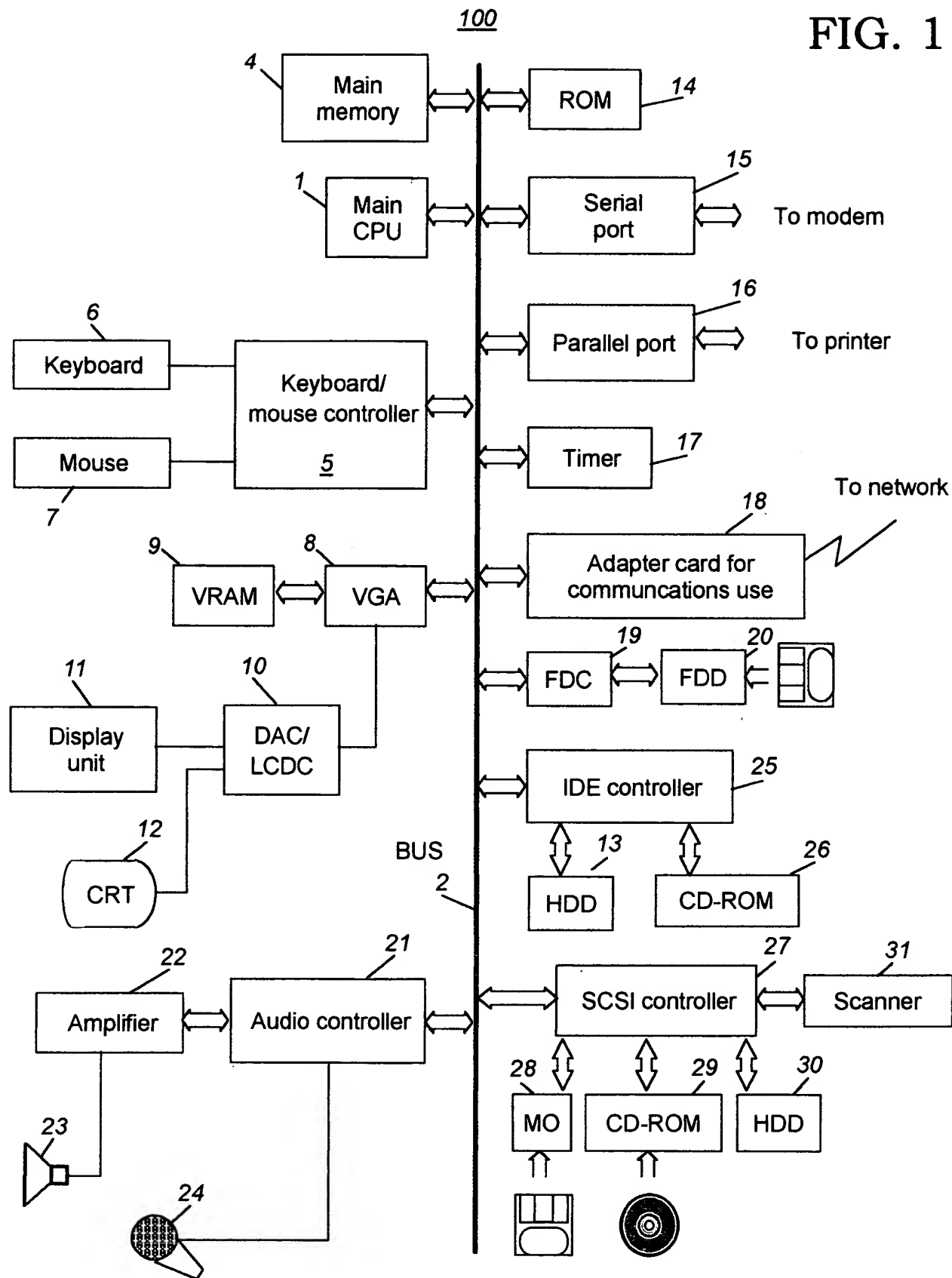


FIG. 2A

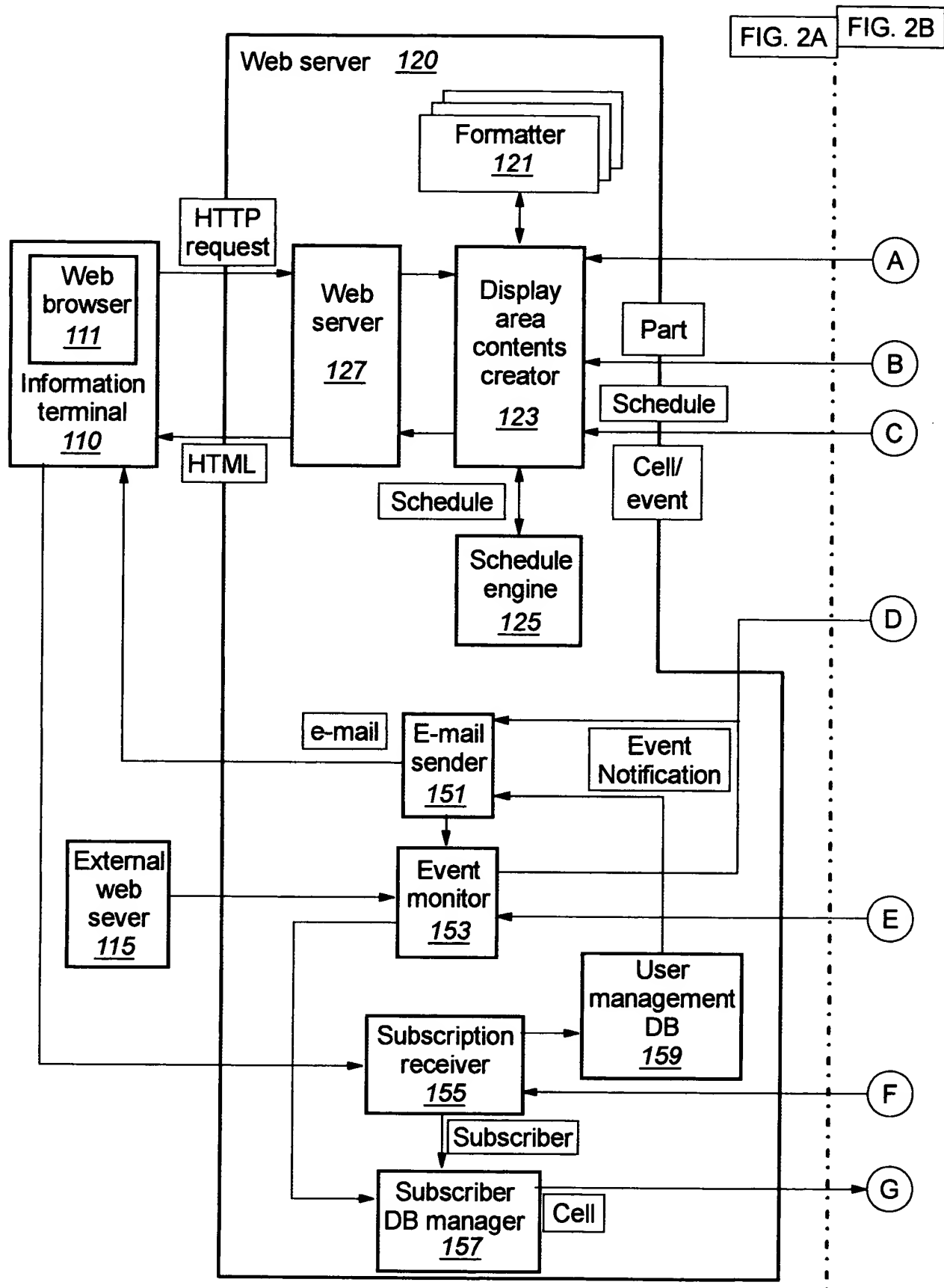


FIG. 2A	FIG. 2B
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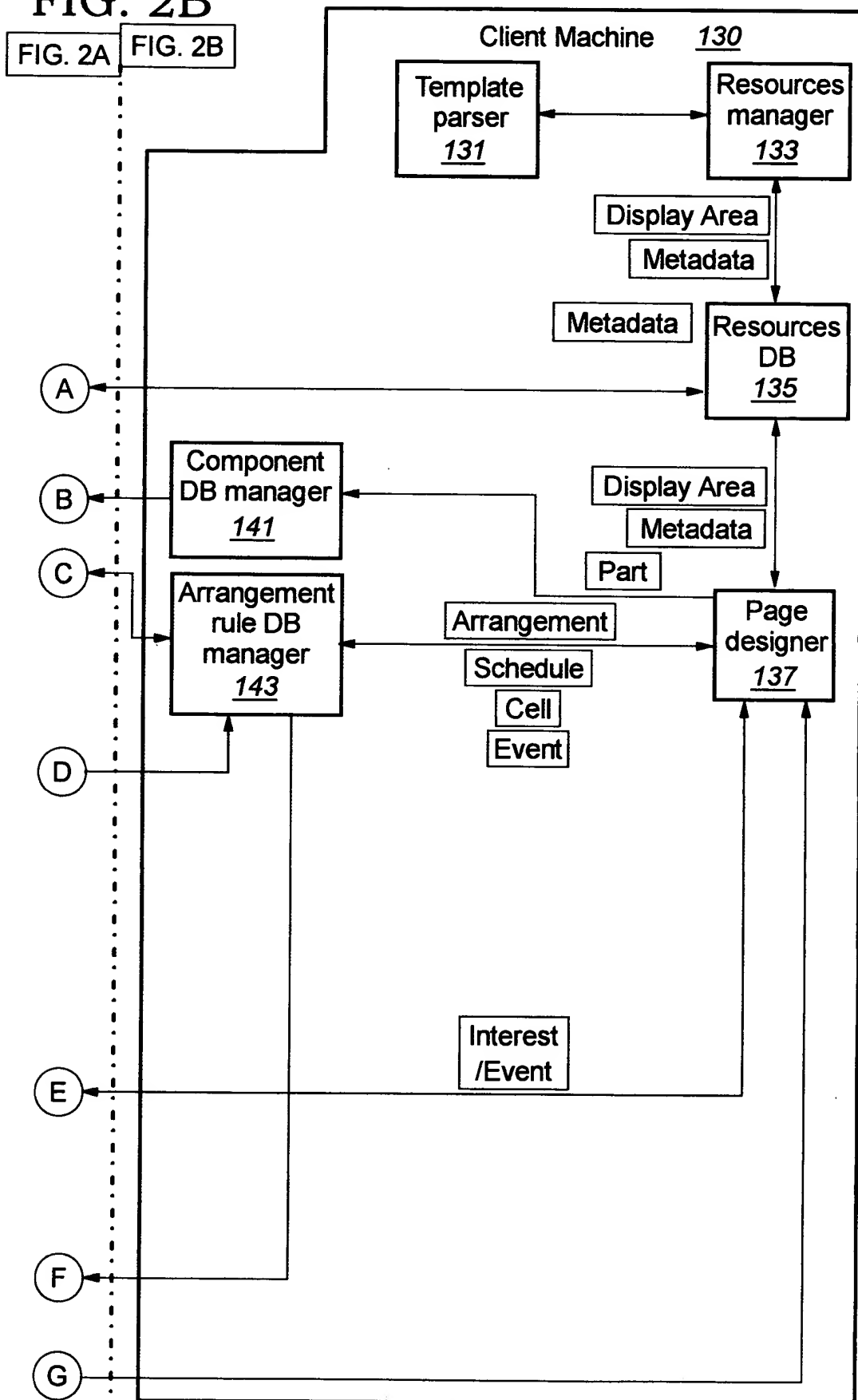


FIG. 3

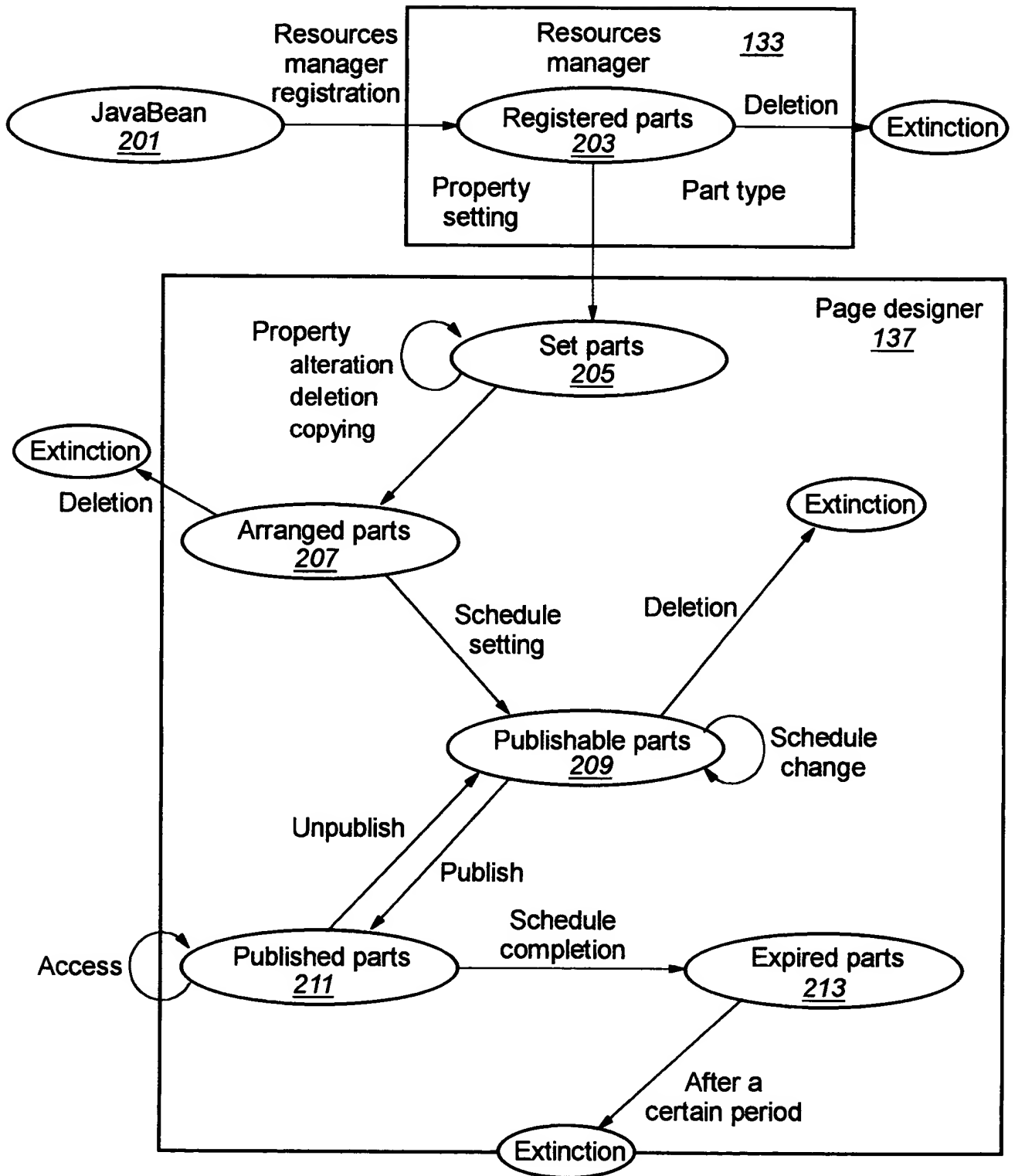


FIG. 4

Contents creator

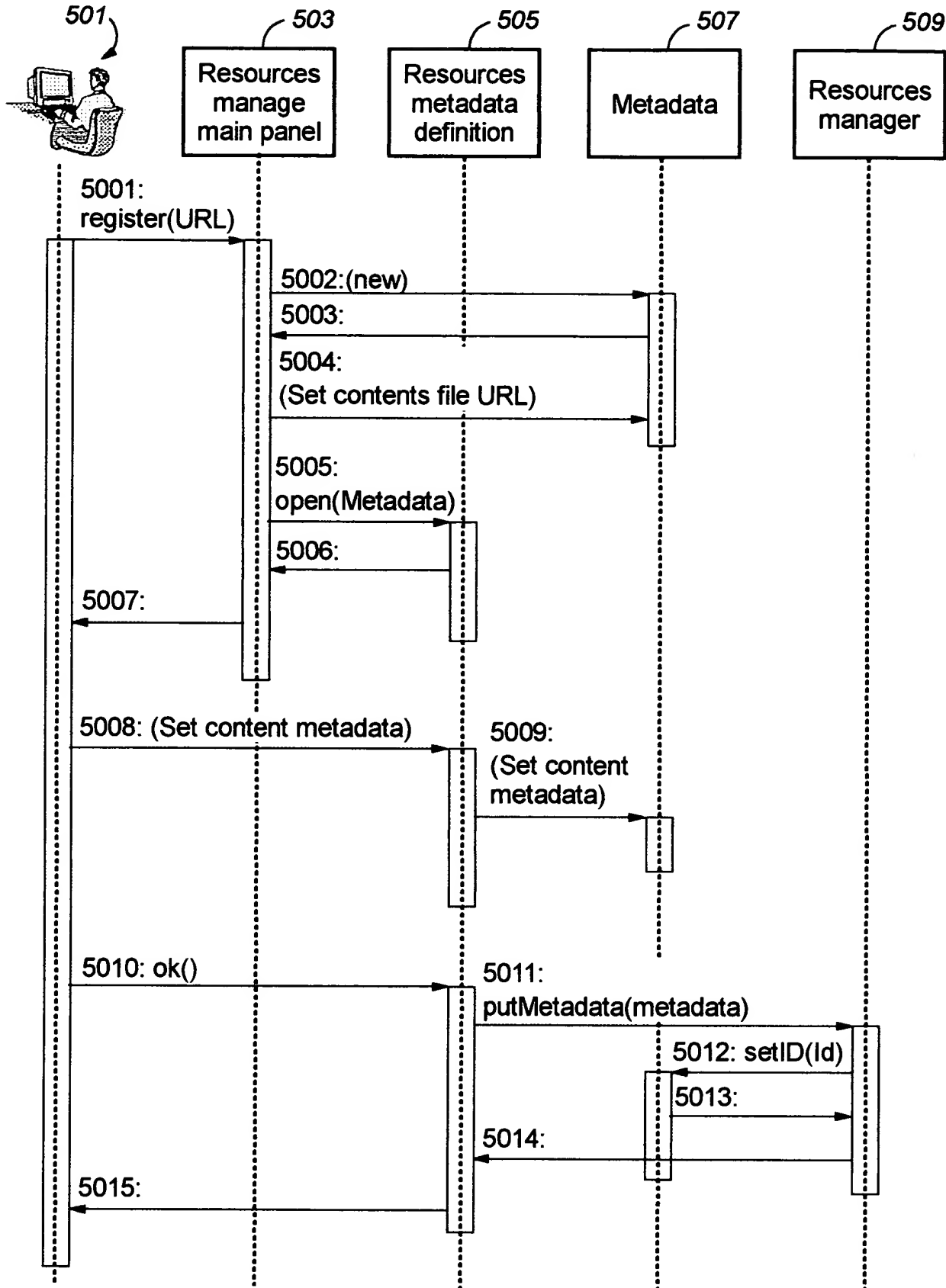
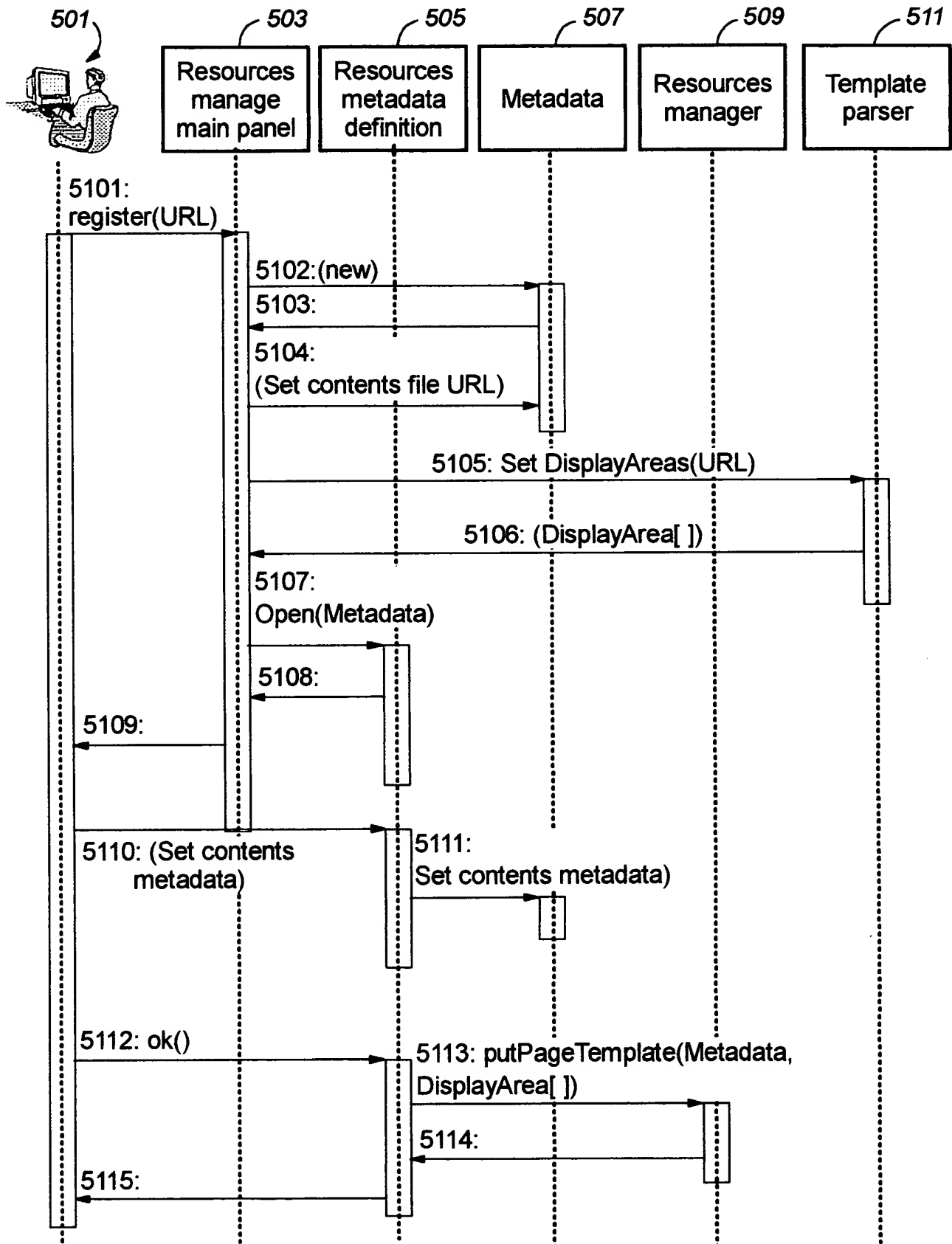


FIG. 5

Contents creator



## Contents creator

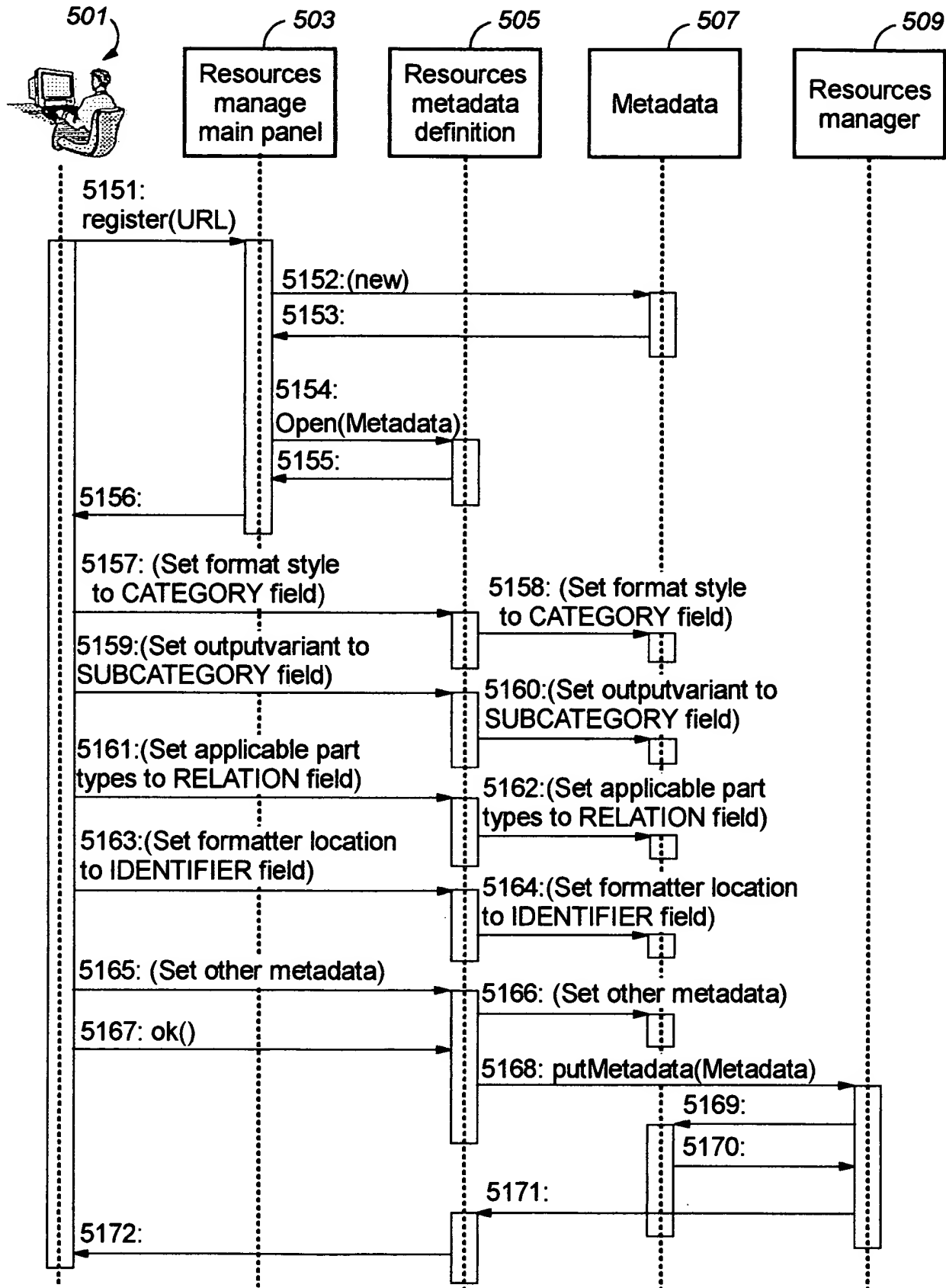


FIG. 7

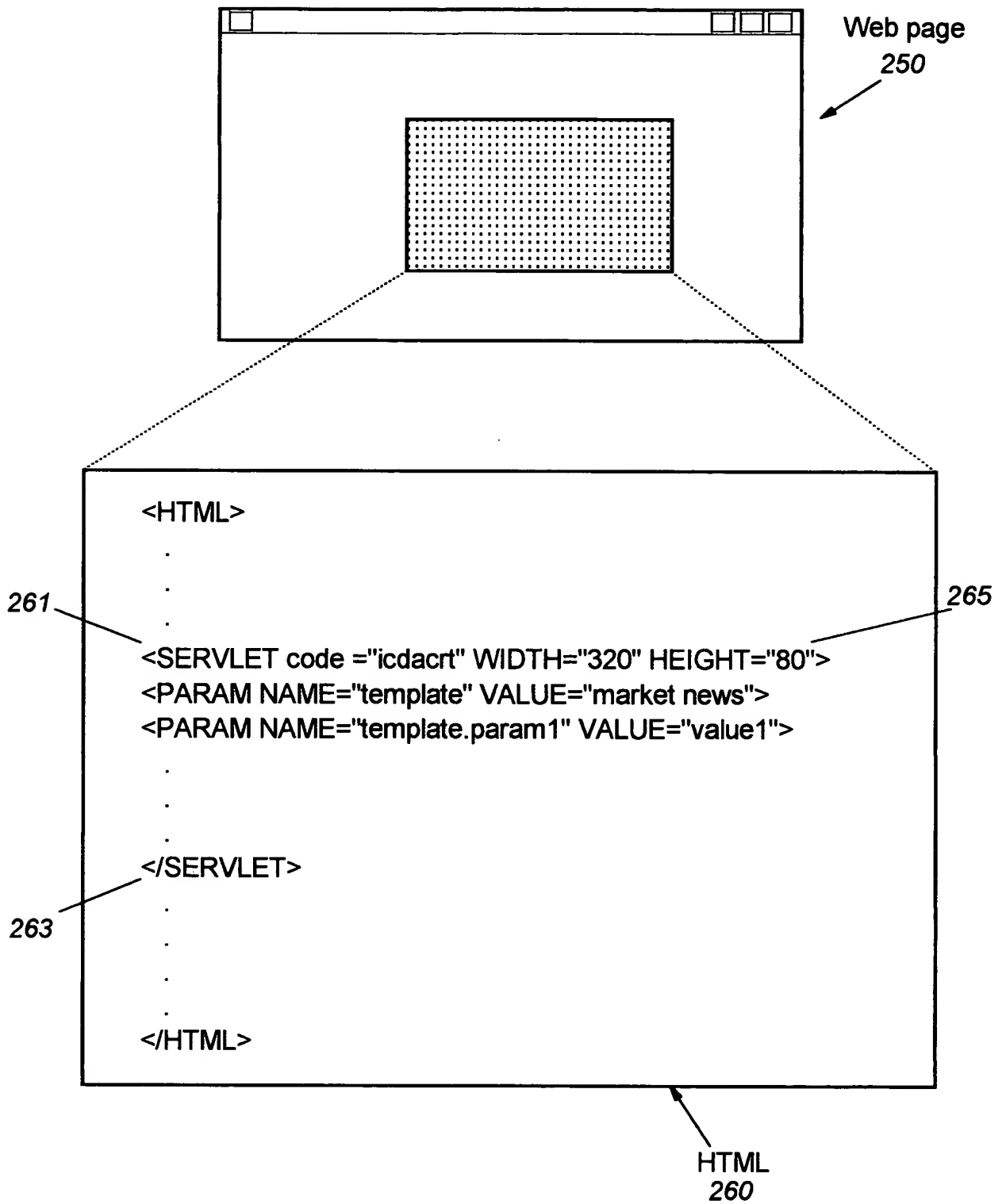




FIG. 8A

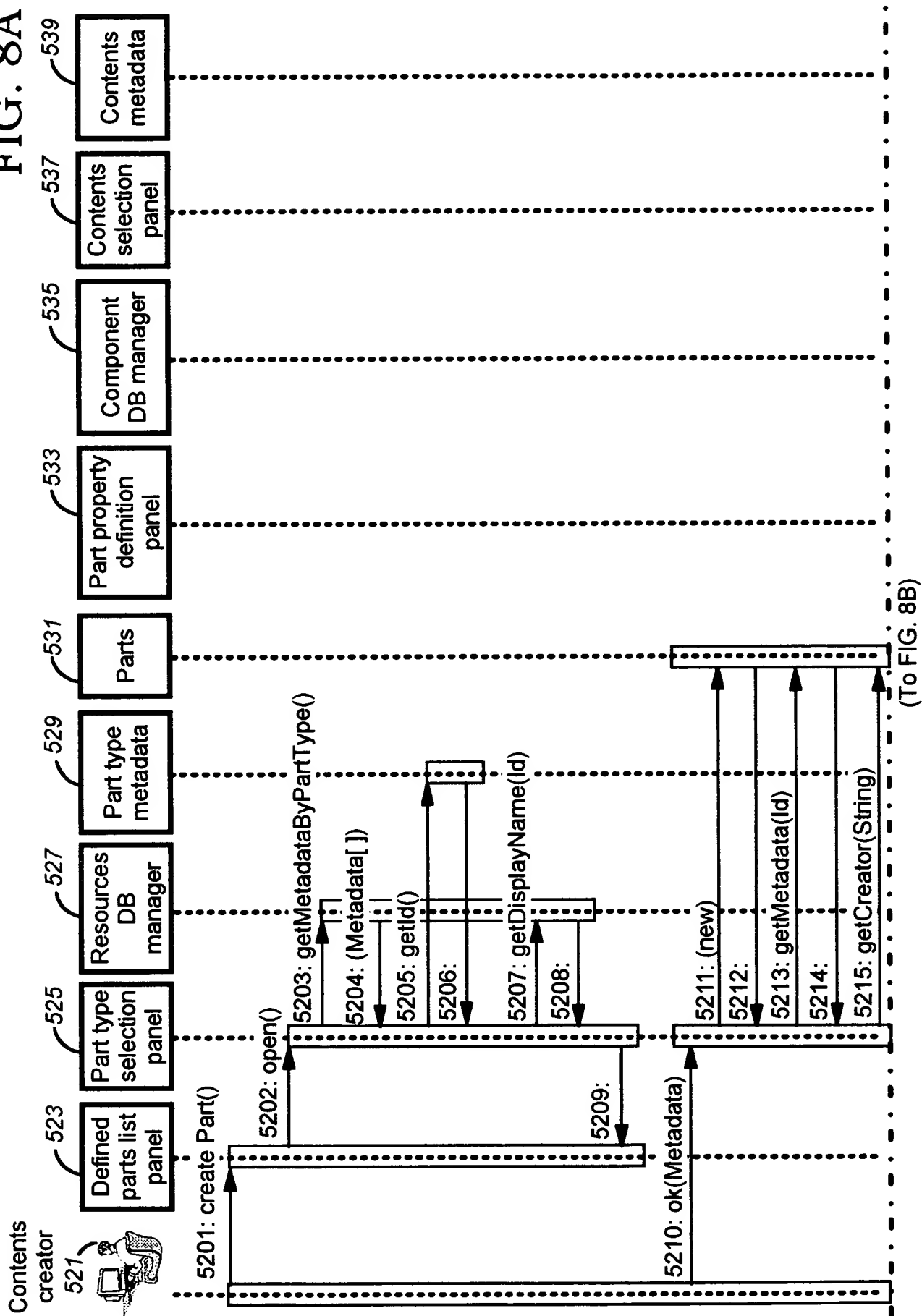




FIG. 9

(From FIG. 8B)

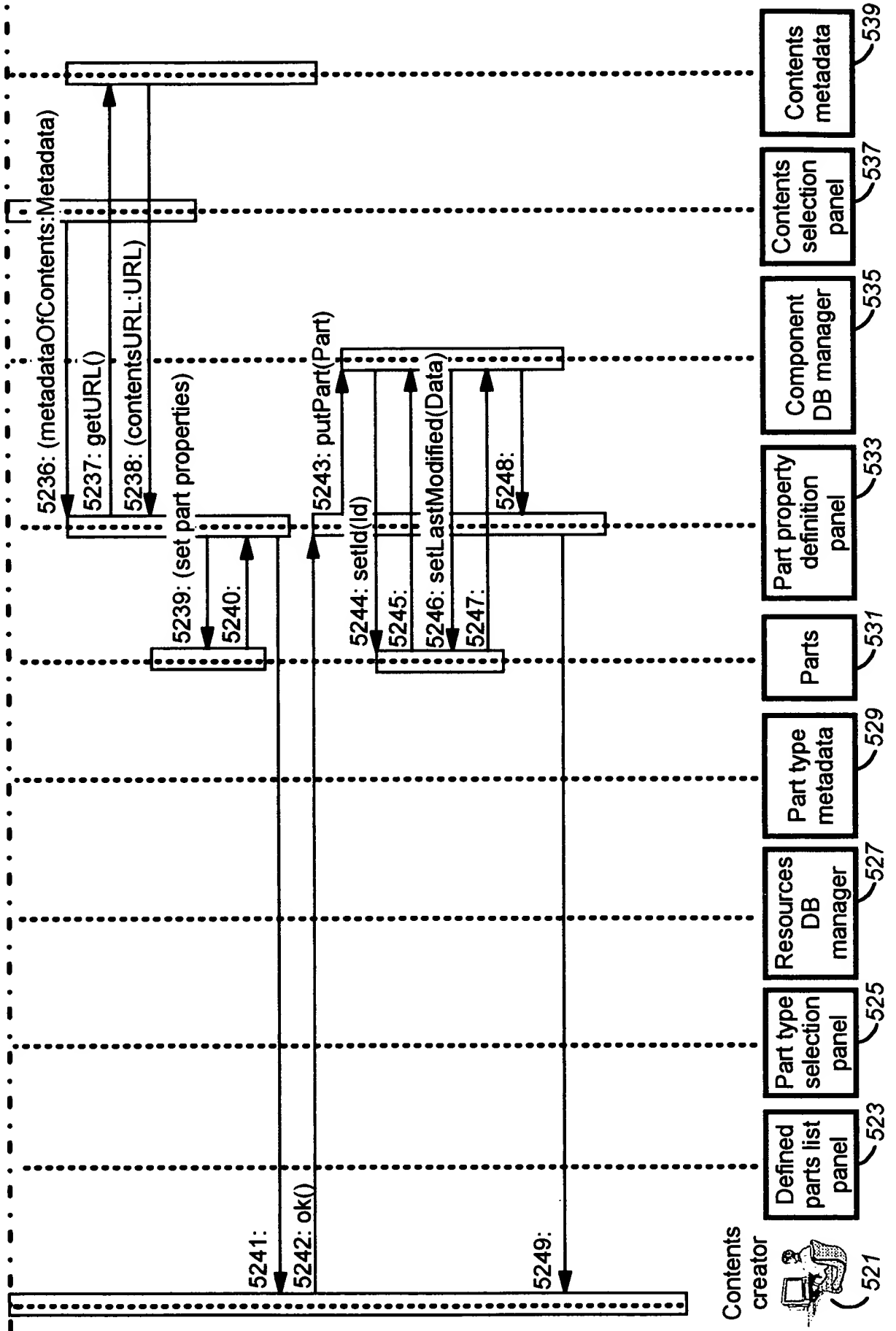


FIG. 10

```
graph TD
    Start((Start)) --> 601
    601 --> End((End))
    601 -- "Parts management" --> 603
    603 -- "Close" --> 601
    603 -- "Copy" --> 603
    603 -- "Create" --> 605
    605 -- "Cancel" --> 603
    605 -- "OK" --> 607
    603 -- "Delete" --> 609
    603 -- "OK/cancel" --> 609
    603 -- "Edit" --> 607
    603 -- "OK/cancel" --> 607
    601 -- "Close" --> 611
    601 -- "Parts arrangement /schedule" --> 613
    601 -- "Arranged parts list" --> 611
    611 -- "Close" --> 601
    611 -- "Parts arrangement" --> 617
    613 -- "Close" --> 601
    613 -- "Parts arrangement" --> 617
    613 -- "Schedule" --> 615
    615 -- "Close" --> 613
    615 -- "Parts arrangement" --> 617
    617 -- "Close" --> 613
    617 -- "Schedule" --> 619
    619 -- "Close" --> 617
    617 -- "OK/cancel" --> 619
    617 -- "Delete" --> 623
    617 -- "OK/cancel" --> 623
    617 -- "Add" --> 621
    621 -- "OK/cancel" --> 617
    617 -- "Publish/unpublish" --> 617
```

The flowchart illustrates the operations and screen transitions for the page designer main screen 601. The main screen 601 can be started or ended. It allows for parts management, leading to the set parts list screen 603. From 603, users can create a new part type selection screen 605, delete a part to a confirmation screen 609, or edit a part to the part properties screen 607. The main screen 601 also provides a close function to the set parts list screen 611 and a parts arrangement/schedule function to the display area list screen 613. The set parts list screen 611 can be closed back to 601 or used for parts arrangement to reach the parts arrangement screen 617. The display area list screen 613 can be closed back to 601 or used for parts arrangement to reach 617, or for scheduling to reach the page schedule screen 615. The page schedule screen 615 can be closed back to 613 or used for parts arrangement to reach 617. The parts arrangement screen 617 is a central hub for scheduling (to page schedule definition screen 619), deleting (to confirmation screen 623), adding (to part selection screen 621), and publishing/unpublishing. Transitions to 619, 621, and 623 from 617 require an OK/cancel confirmation.

FIG. 11A

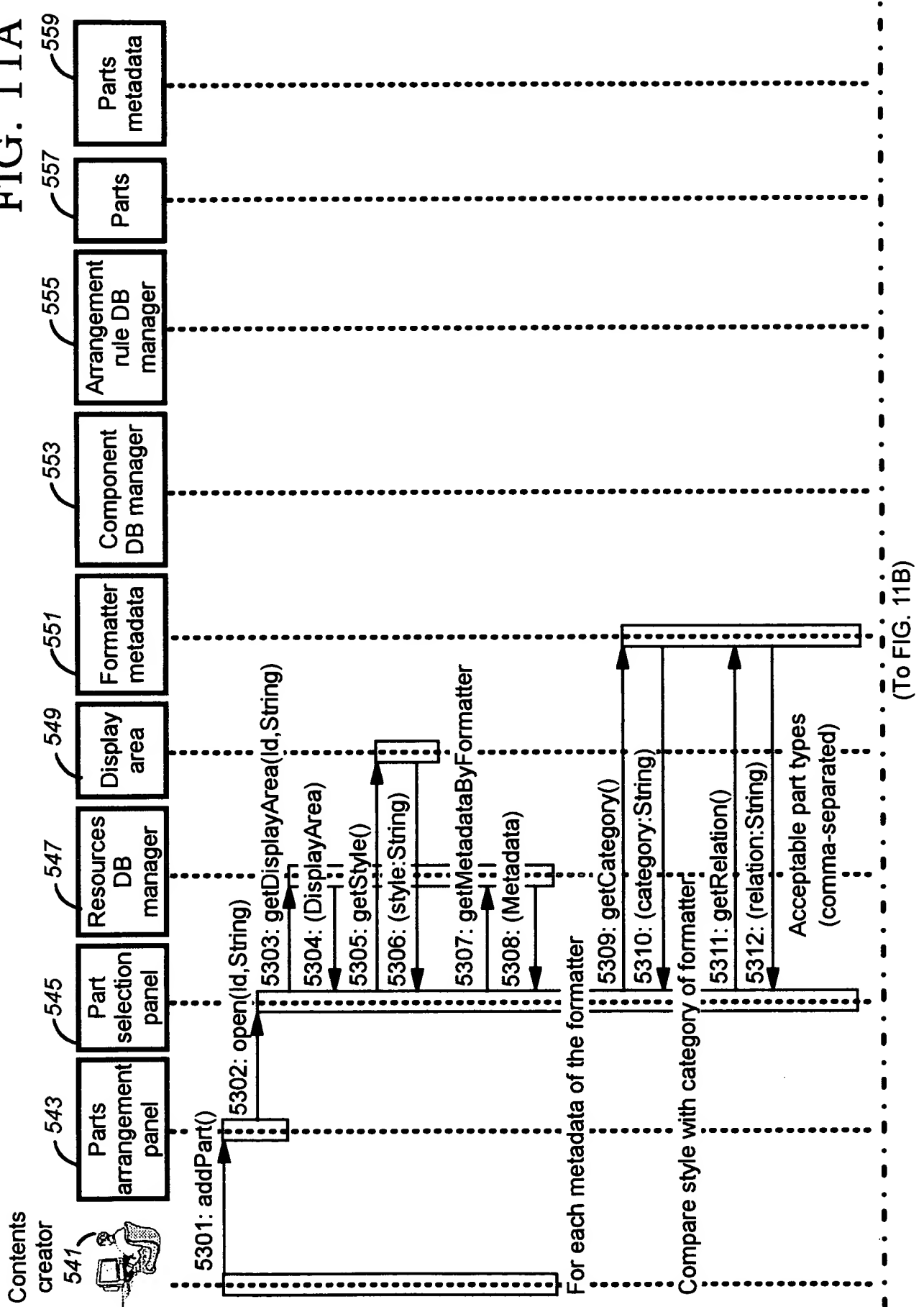
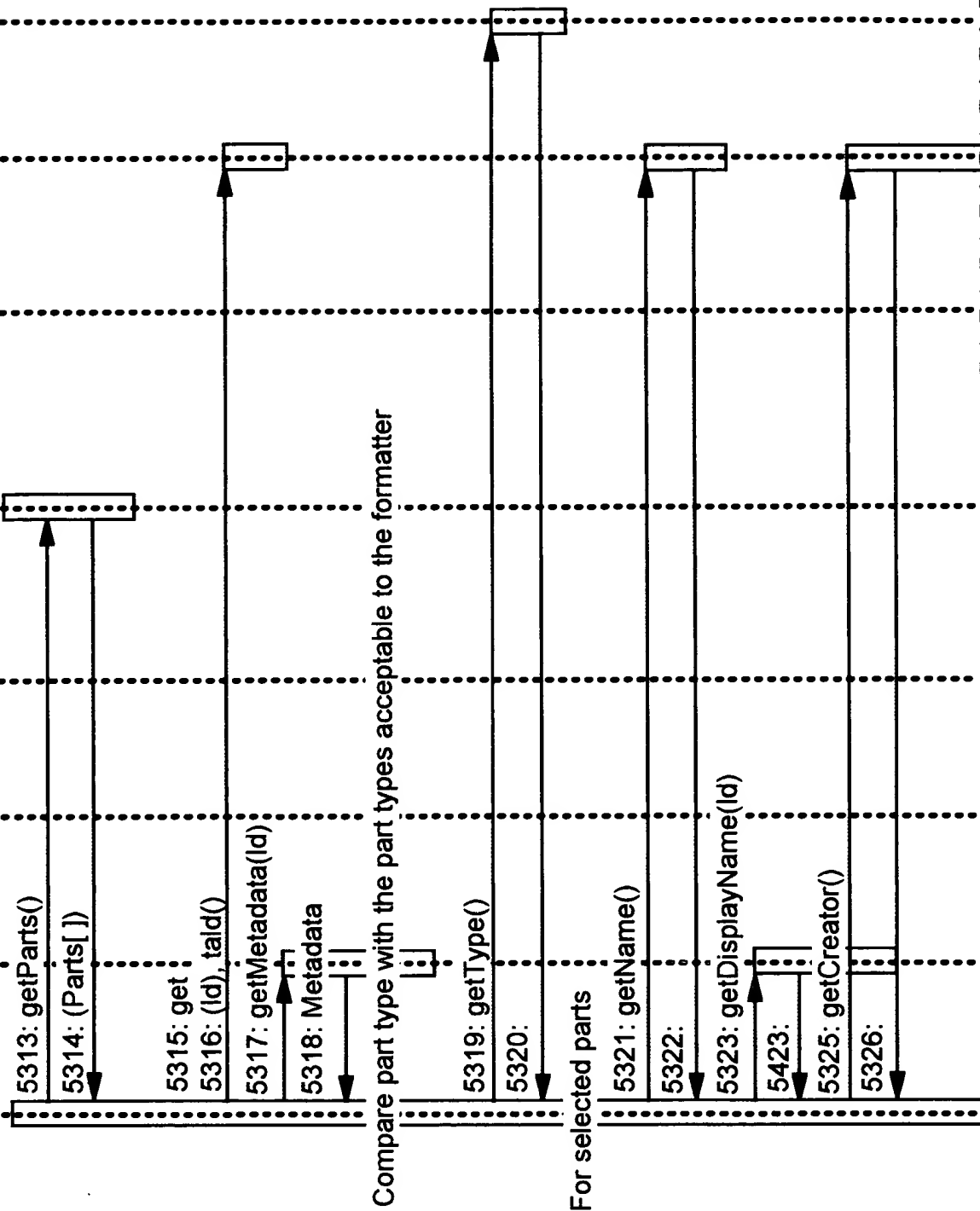


FIG. 11B

(From FIG. 11A)



(To FIG. 12)

FIG. 12

(From FIG. 11B)

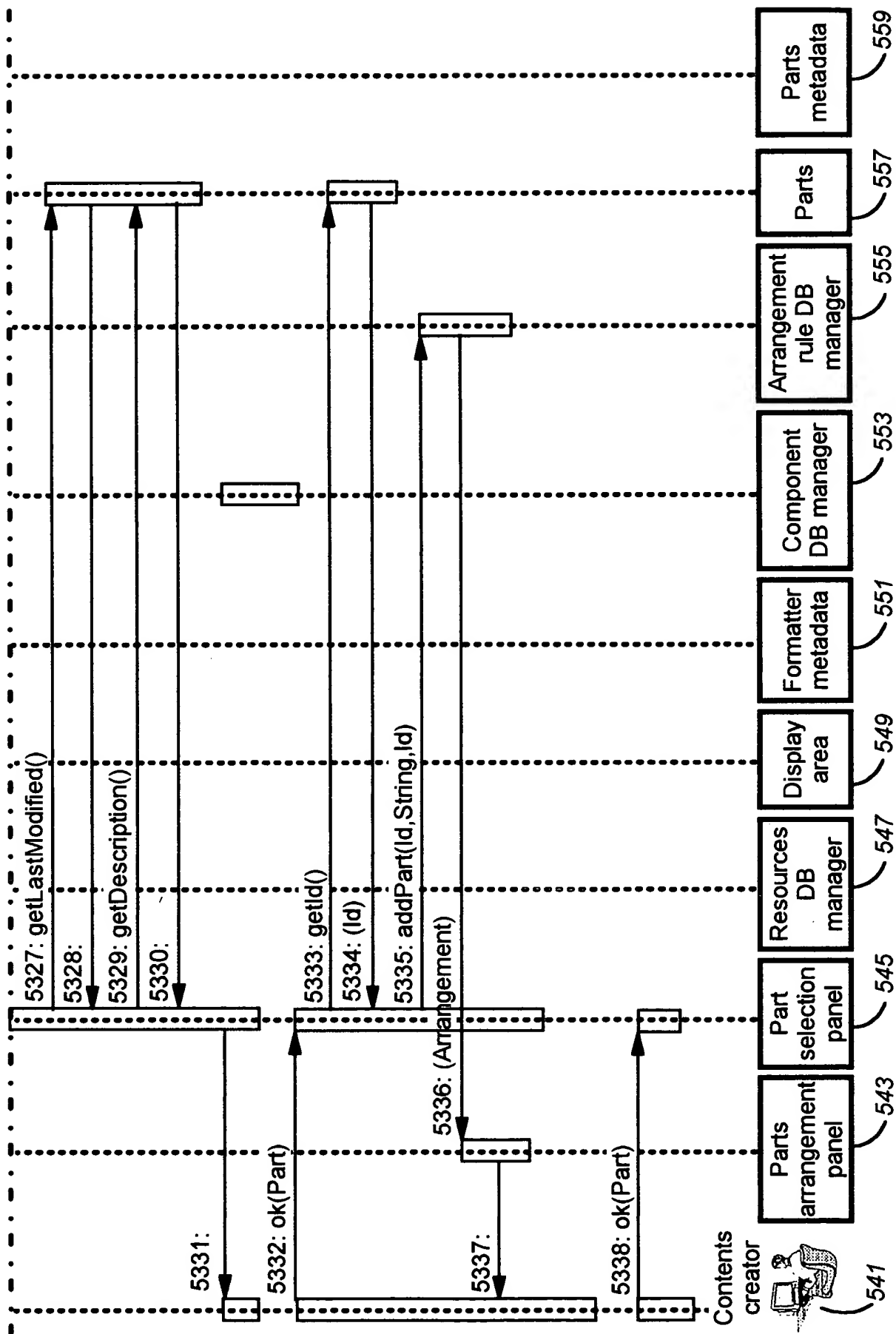


FIG. 13

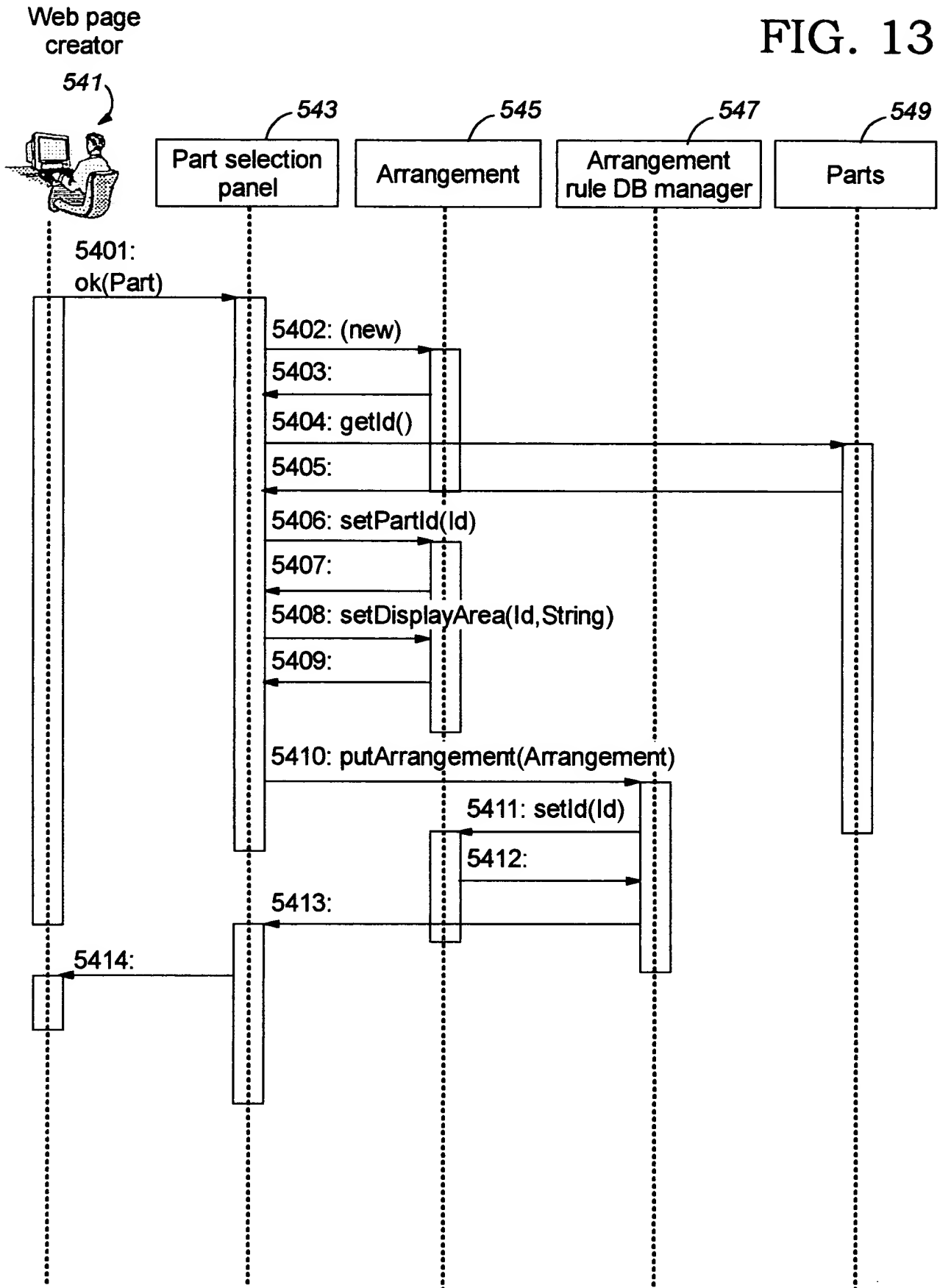




FIG. 14

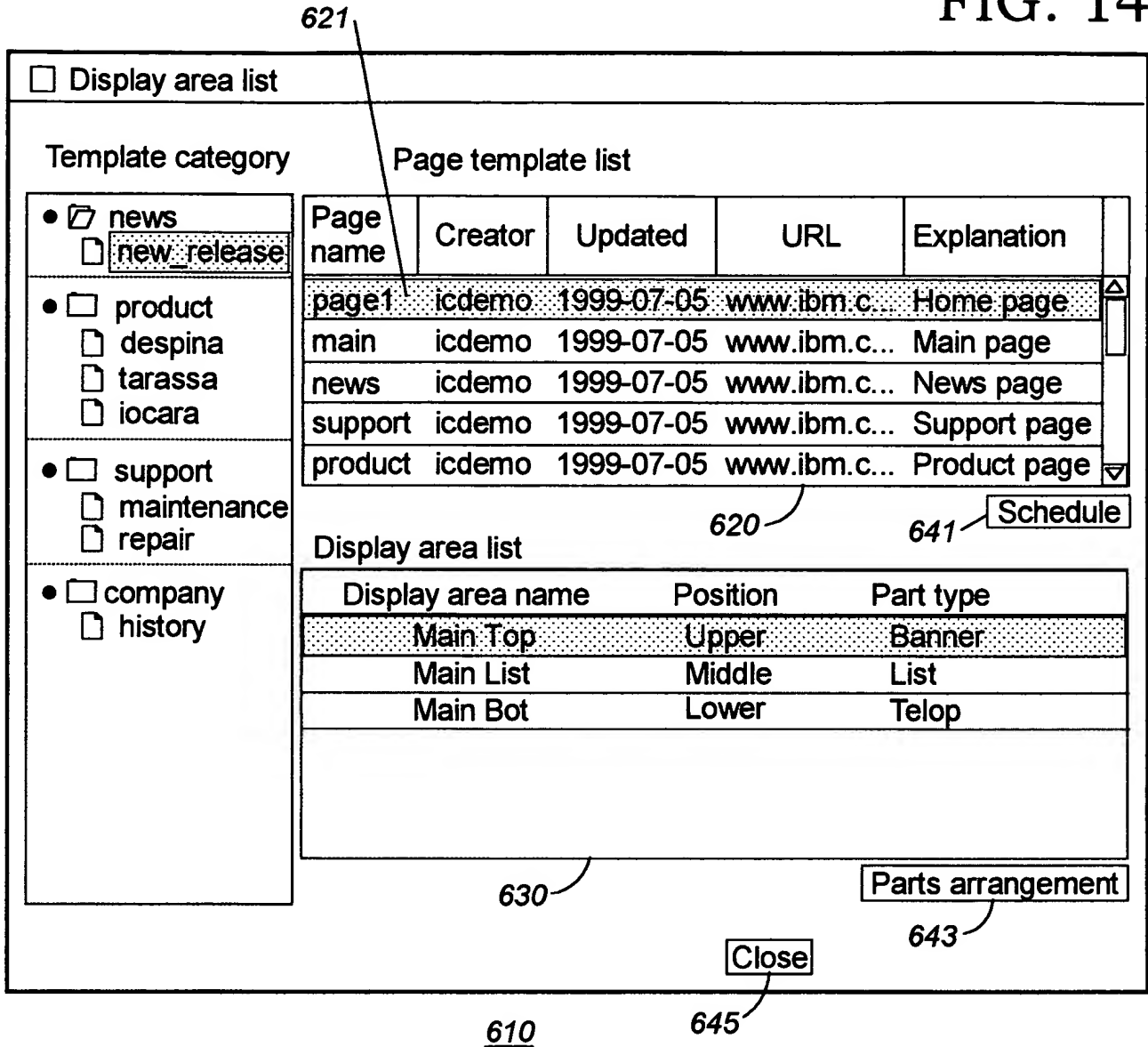


FIG. 16

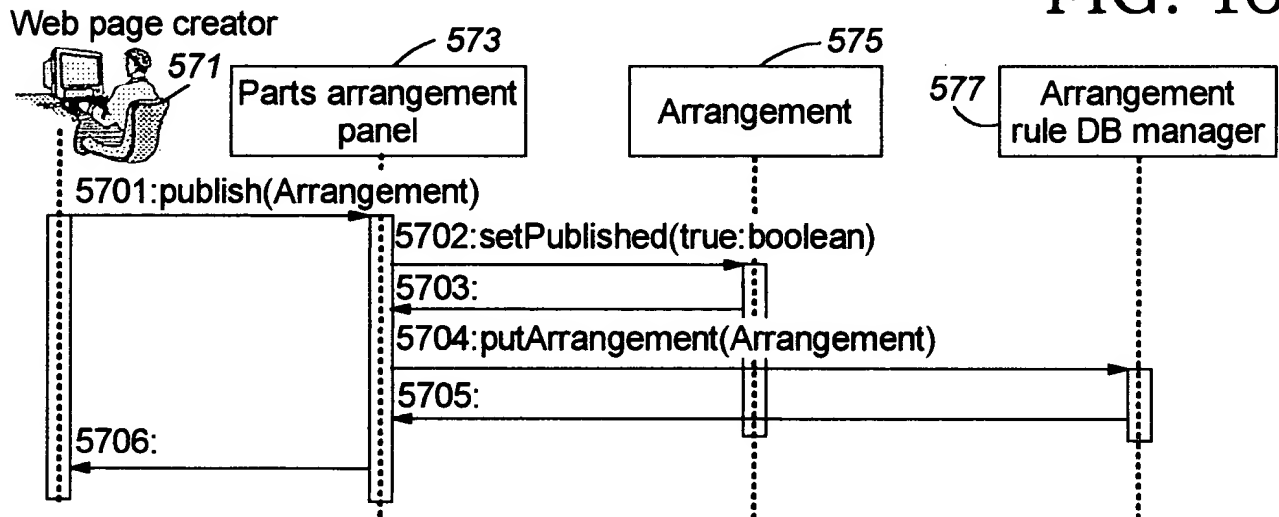


FIG. 15

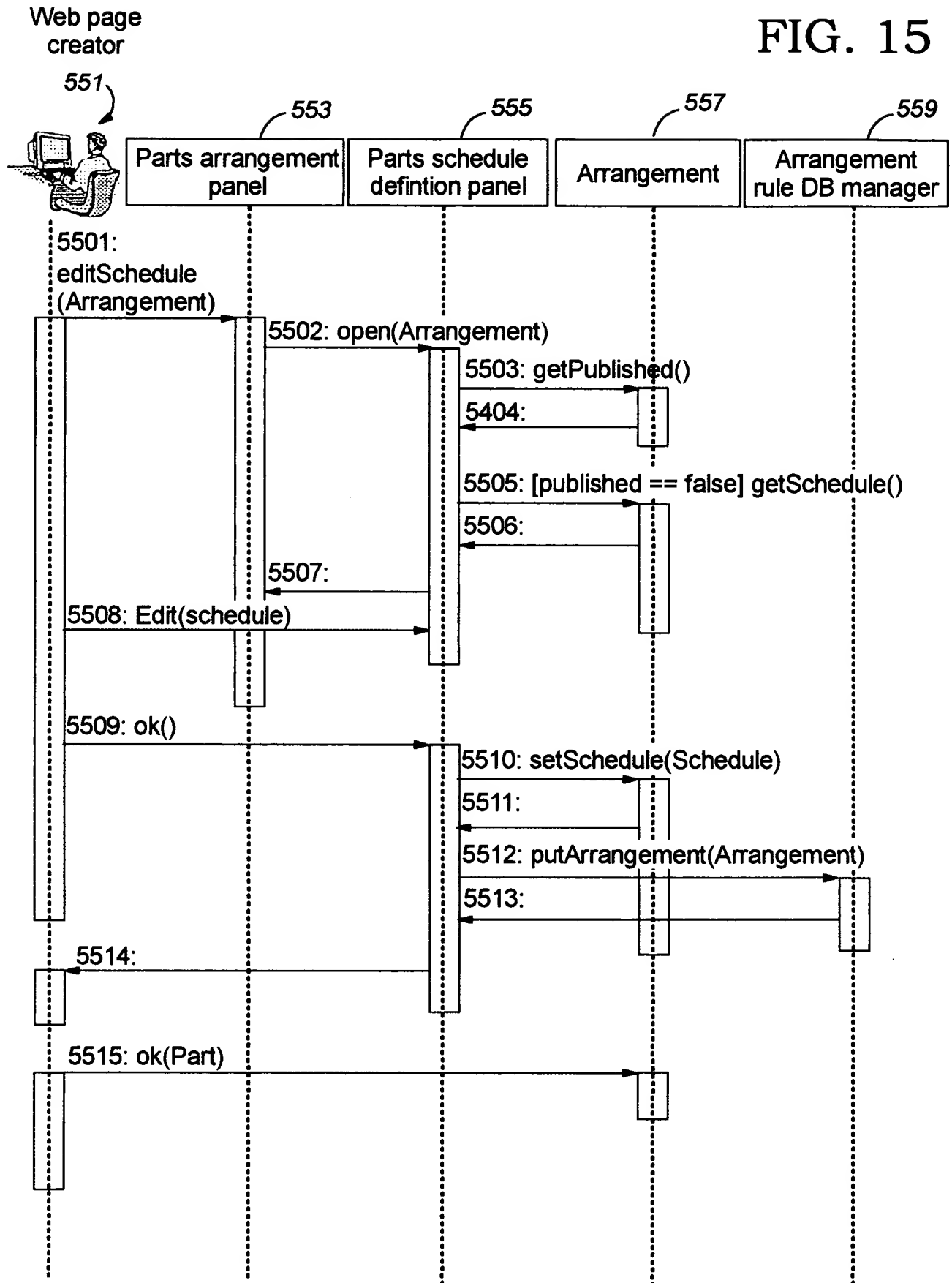


FIG. 17A

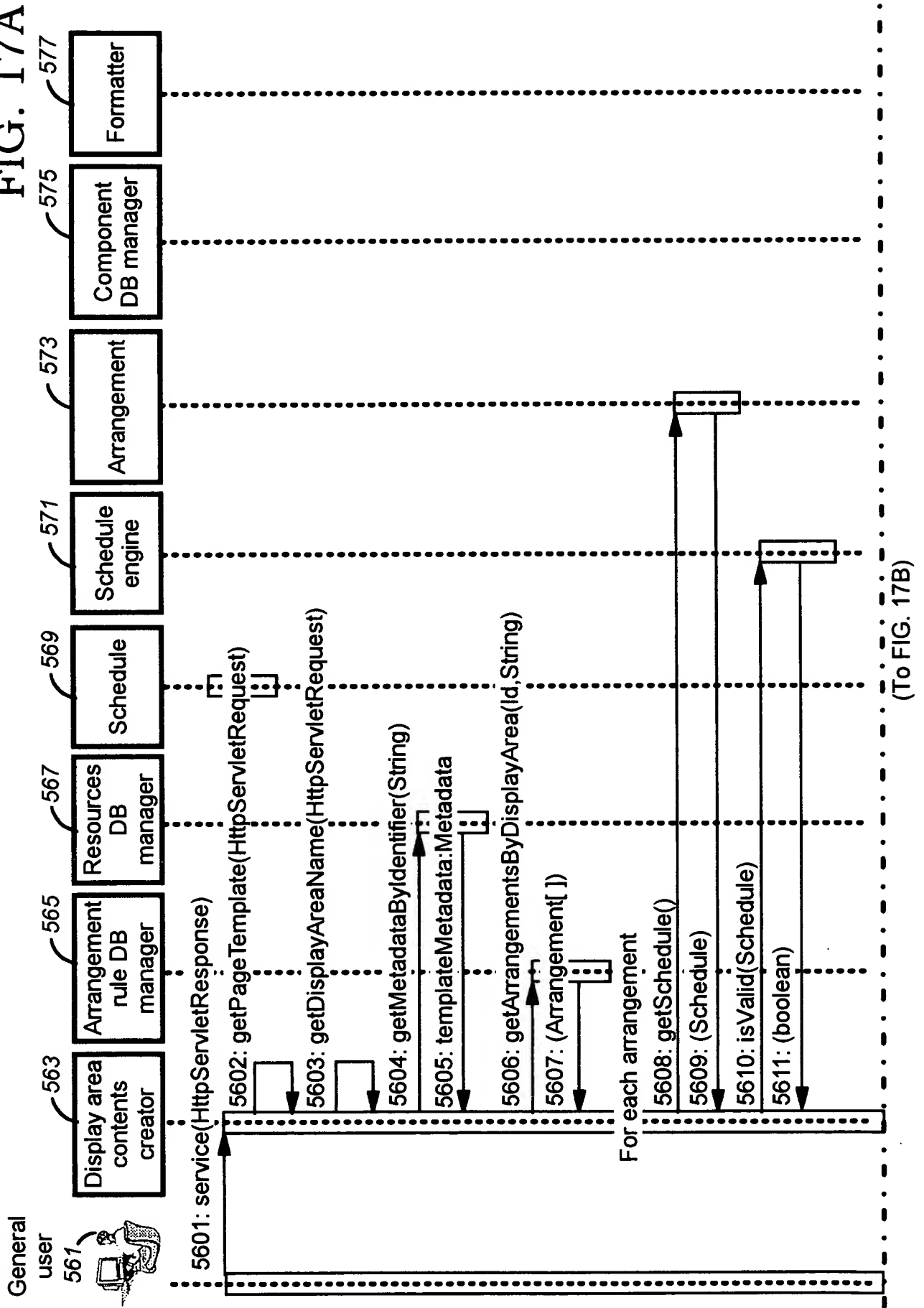
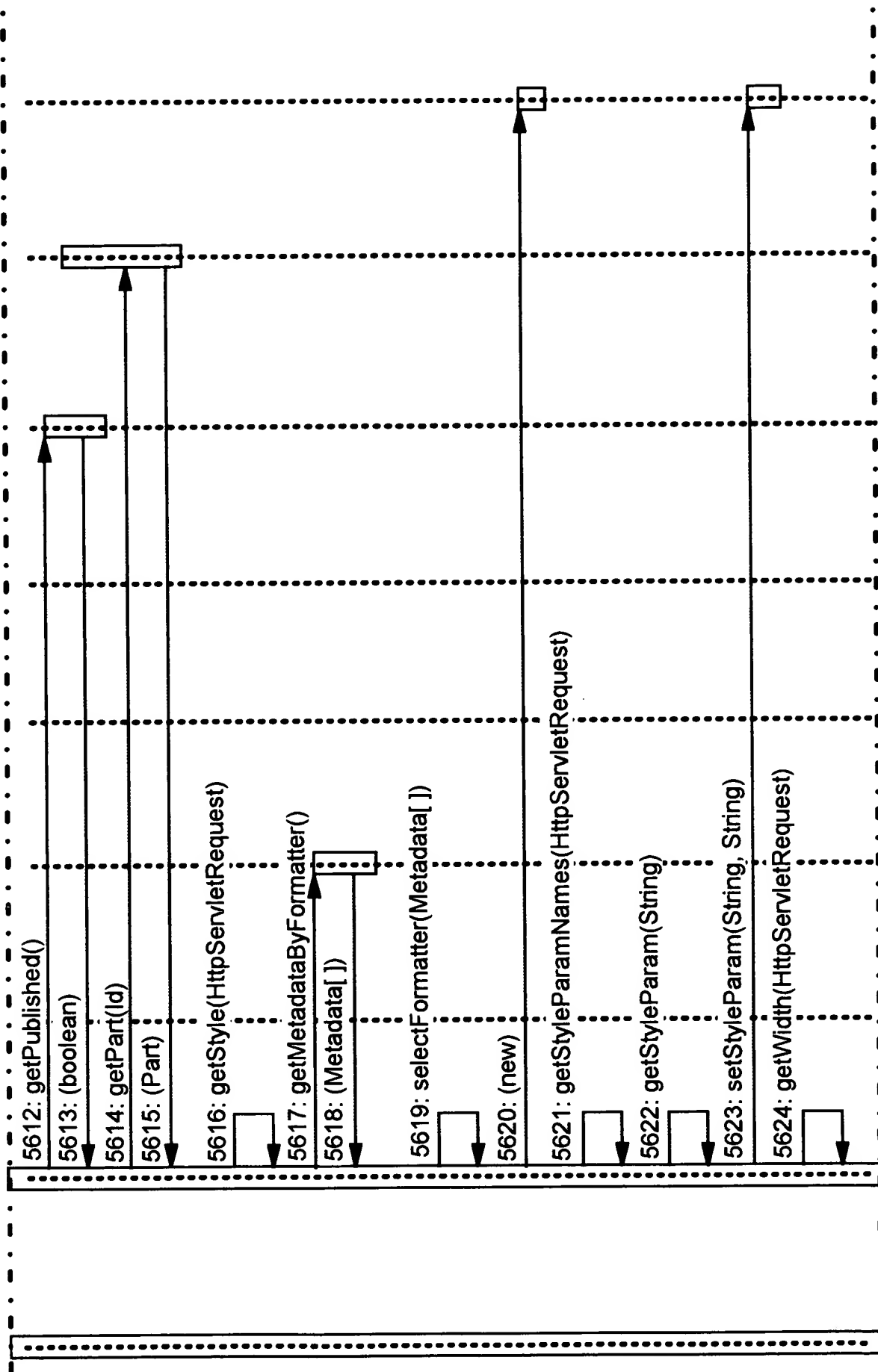


FIG. 17B

(From FIG. 17A)



(To FIG. 18)

FIG. 18

(From FIG. 17B)

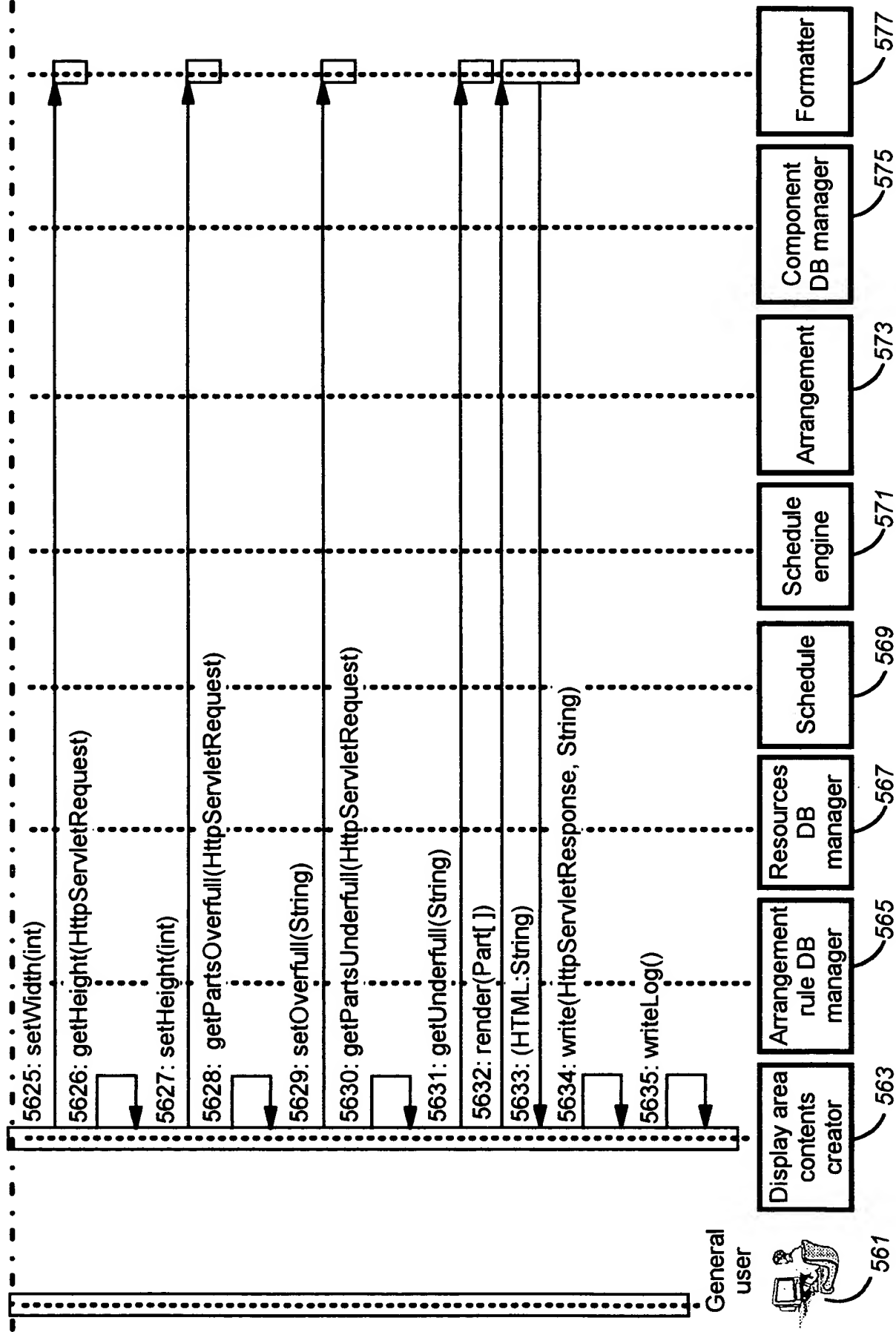


FIG. 19

```

<SERVLET code=icdacr codebase=servlet>
  <PARAM NAME="name" VALUE="product_ad">
  <PARAM NAME="style" VALUE="bannerFlow">
  <PARAM NAME="direction" VALUE="horizontal">
  <PARAM NAME="bgColor" VALUE="Gray"
  <PARAM NAME="width" VALUE="300">
  <PARAM NAME="height" VALUE="80">
  <PARAM NAME="position" VALUE="top">
  <PARAM NAME="default" VALUE="<IMG SRC='default_img.gif'>">
  <PARAM NAME="partsOverfull" VALUE="random">
  <PARAM NAME="partsUnderfull" VALUE="shrink">
</SERVLET>

```

701

703

Example of mounted display area 700

FIG. 20

Part ID	Part display area name	Part template ID	START	END	Publish
0001	product_ad	1001	1999-01-01 0:00	1999-07-01 0:00	1
0002	product_ad	1002	1999-07-01 0:00	2000-01-01 0:00	1
0003	product_inf	1003	1999-08-01 4:00	1999-09-20 23:00	0
.	.	.	.	.	.
.	.	.	.	.	.
.	.	.	.	.	.

Arrangement rule DB 720

FIG. 21

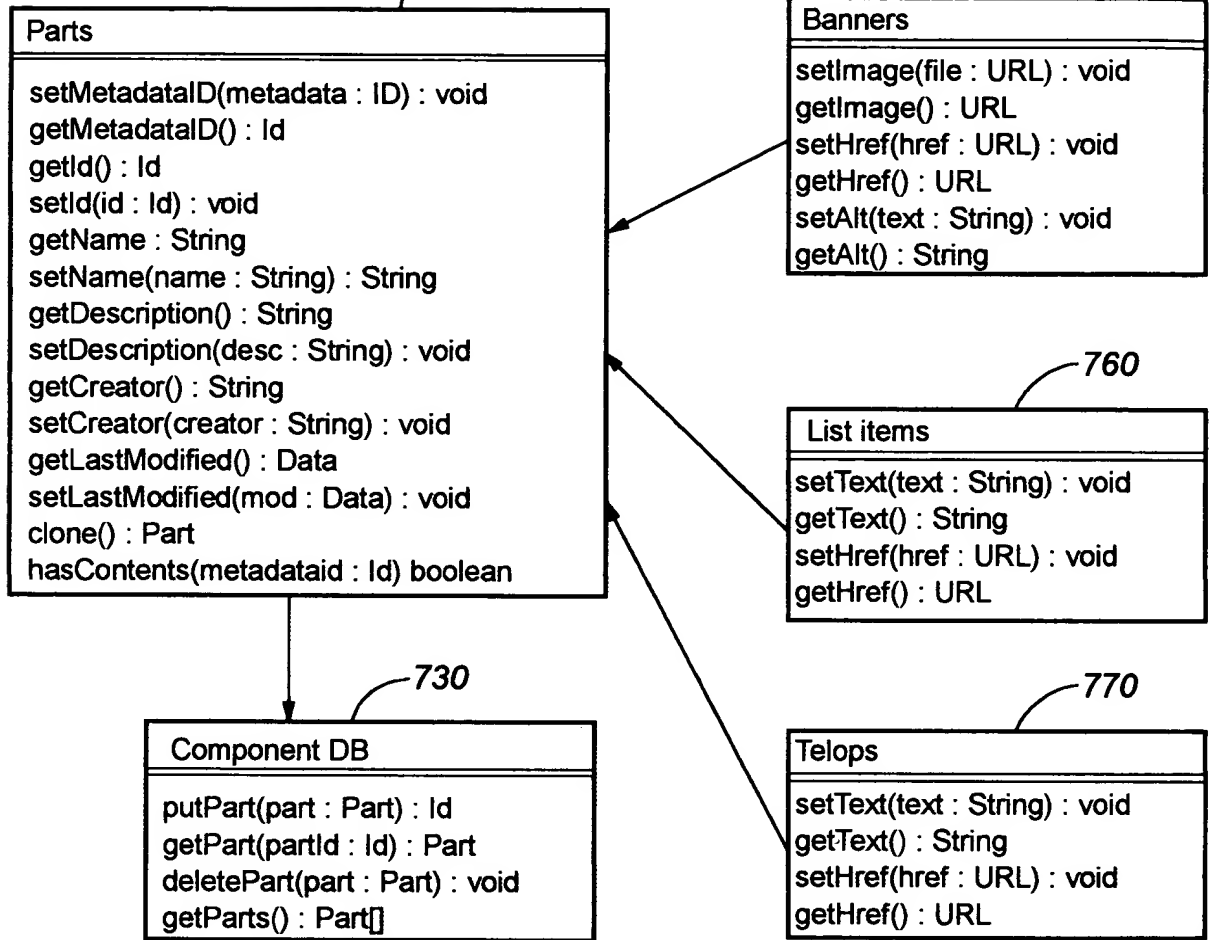


FIG. 23

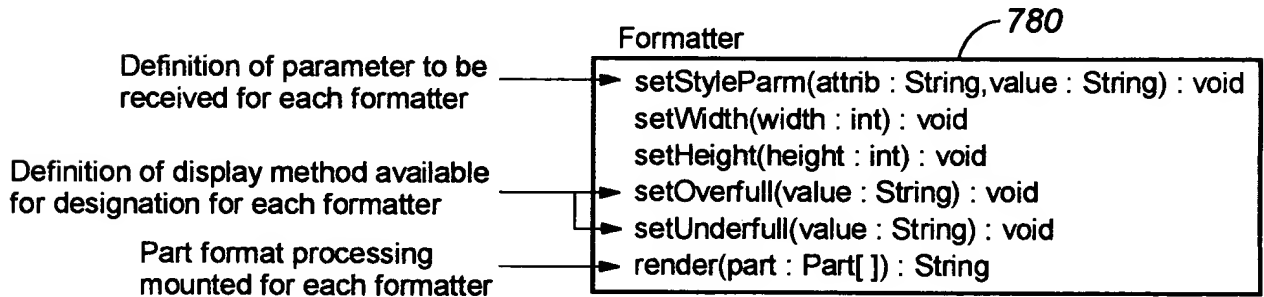


FIG. 22

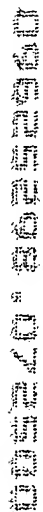




FIG. 24

Difference in format with display are style

```
<SERVLET code=indactr codebase=/servlet>  
  <PARAM NAME="name" VALUE="product_ad">  
  <PARAM NAME="style" VALUE="banner">  
  <PARAM NAME="width" VALUE="100">  
  <PARAM NAME="height" VALUE="40">  
  <PARAM NAME="position" VALUE="top">  
  <PARAM NAME="default" VALUE="<IMG SRC='default_img.gif'>">  
  <PARAM NAME="partsOverfull" VALUE="rotation=2">  
  <PARAM NAME="partUnderfull" VALUE="shrink">  
</SERVLET>
```

FIG. 25

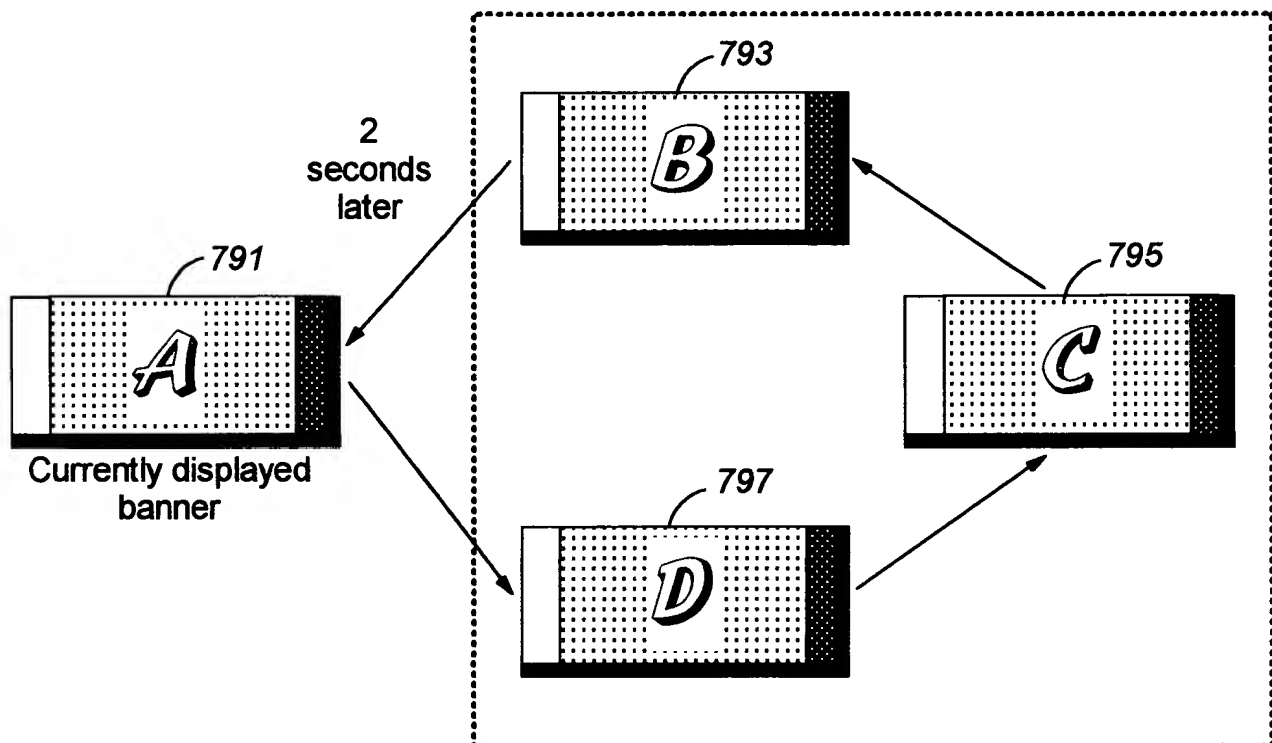


FIG. 26

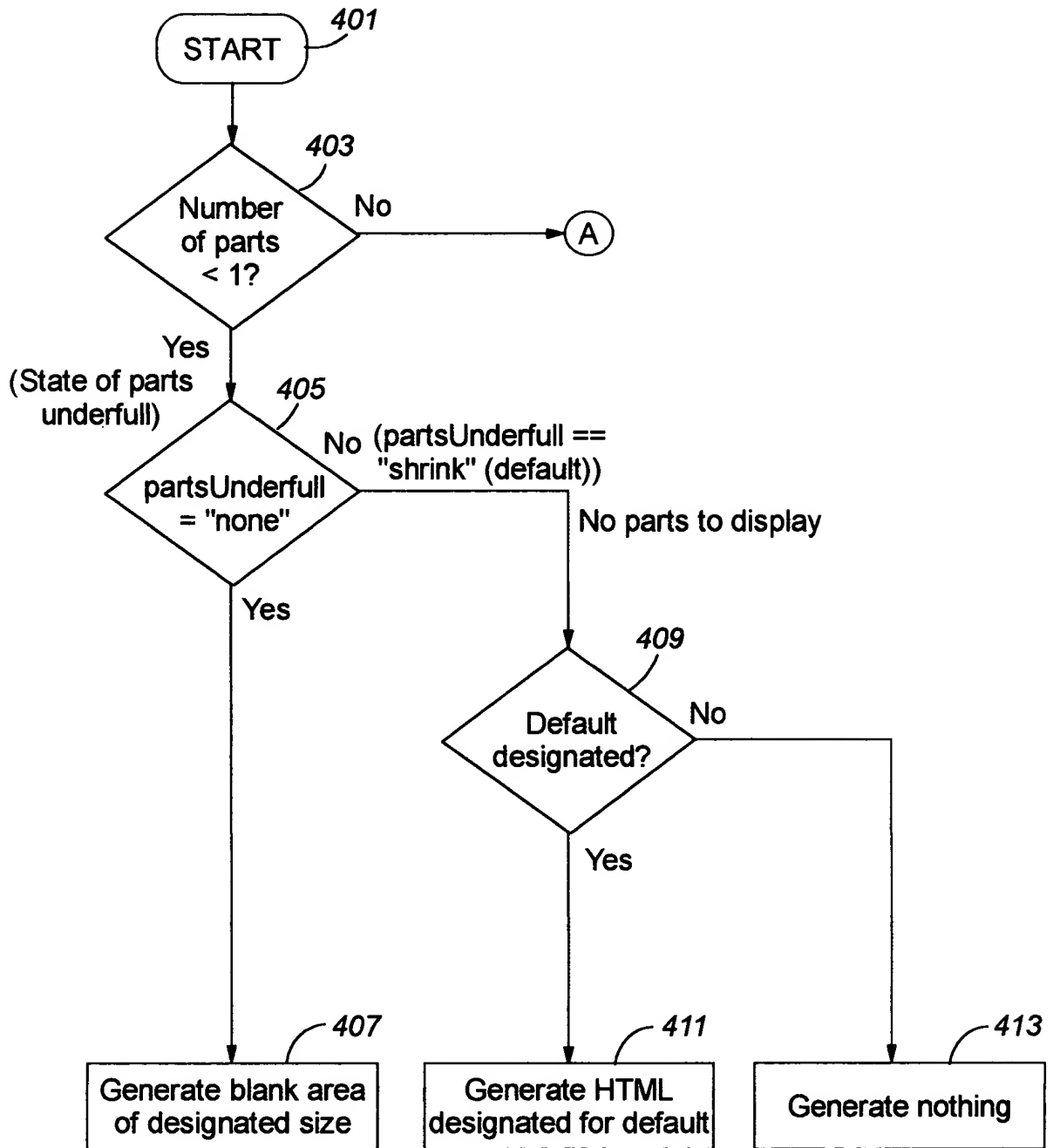


FIG. 27

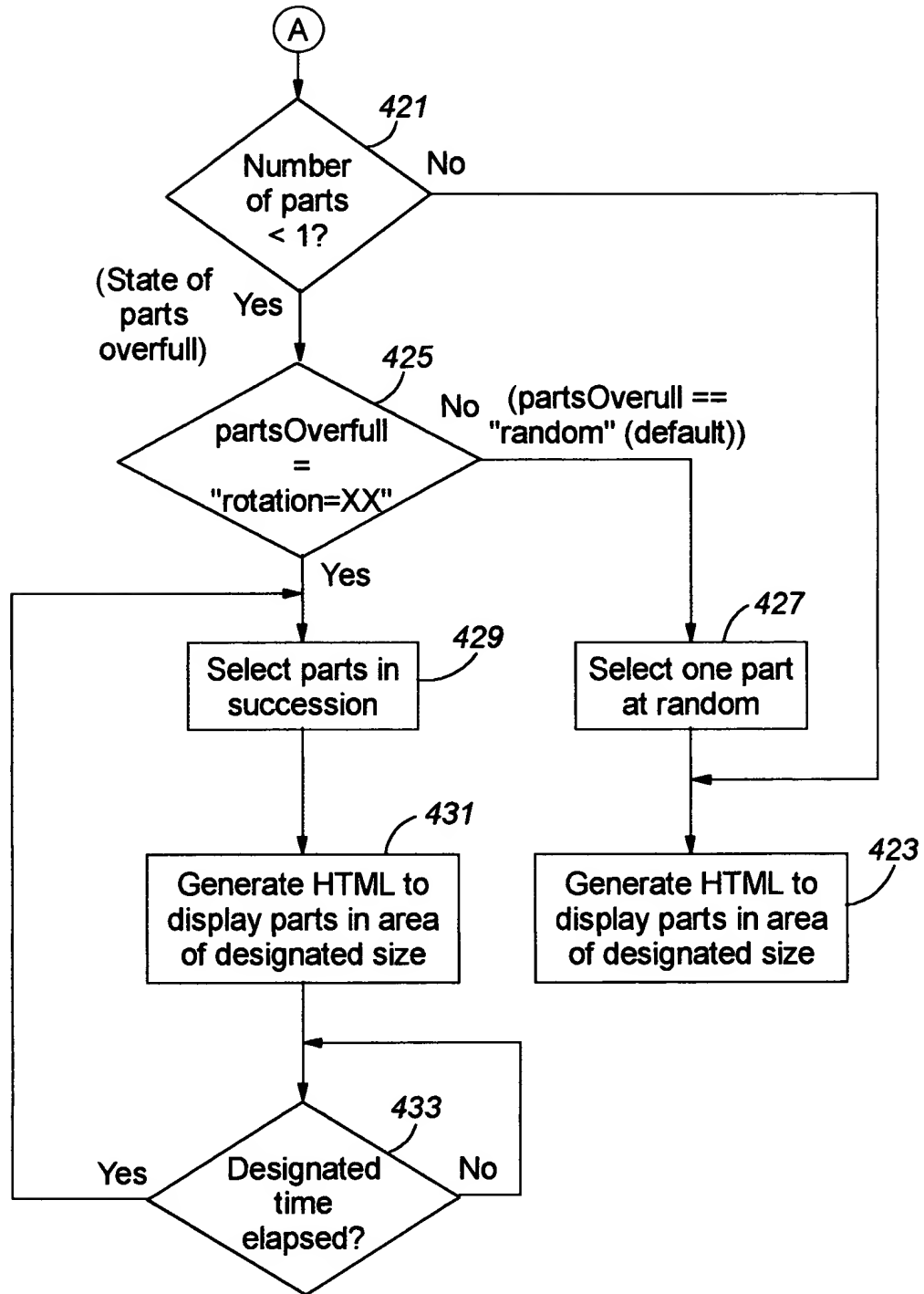


FIG. 28

```
<SERVLET code=indact codebase=/servlet>  
  <PARAM NAME="name" VALUE="product_ad">  
  <PARAM NAME="style" VALUE="bannerFlow">  
  <PARAM NAME="direction" VALUE="horizontal">  
  <PARAM NAME="bgColor" VALUE="gray">  
  <PARAM NAME="width" VALUE="300">  
  <PARAM NAME="height" VALUE="80">  
  <PARAM NAME="position" VALUE="top">  
  <PARAM NAME="default" VALUE="<IMG SRC='default_img.gif'>">  
  <PARAM NAME="partsOverfull" VALUE="random">  
  <PARAM NAME="partUnderfull" VALUE="shrink">  
</SERVLET>
```

FIG. 29

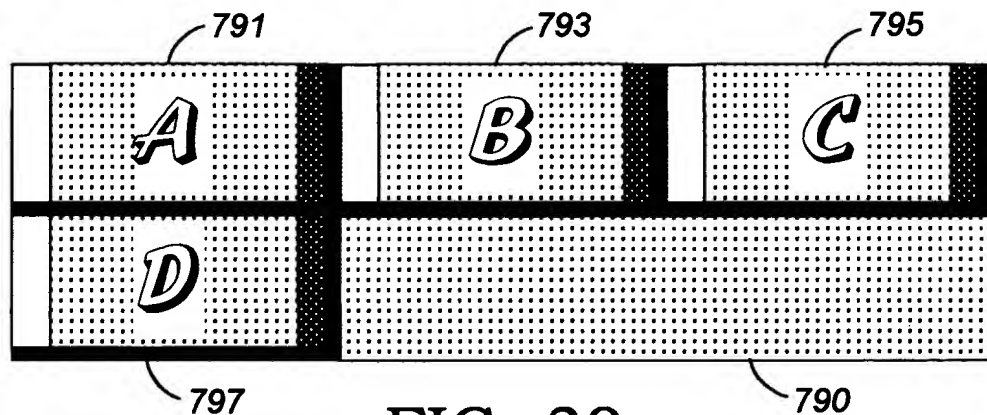


FIG. 30

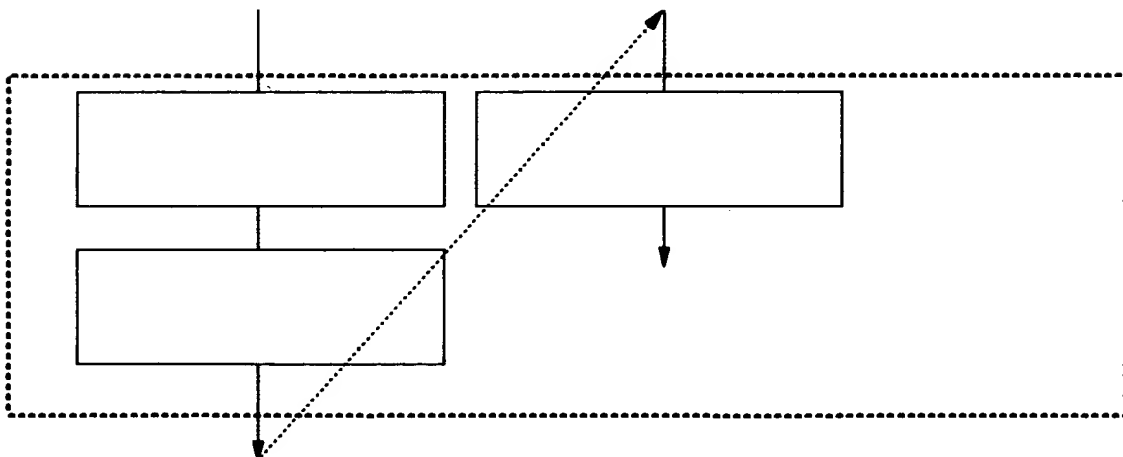


FIG. 31

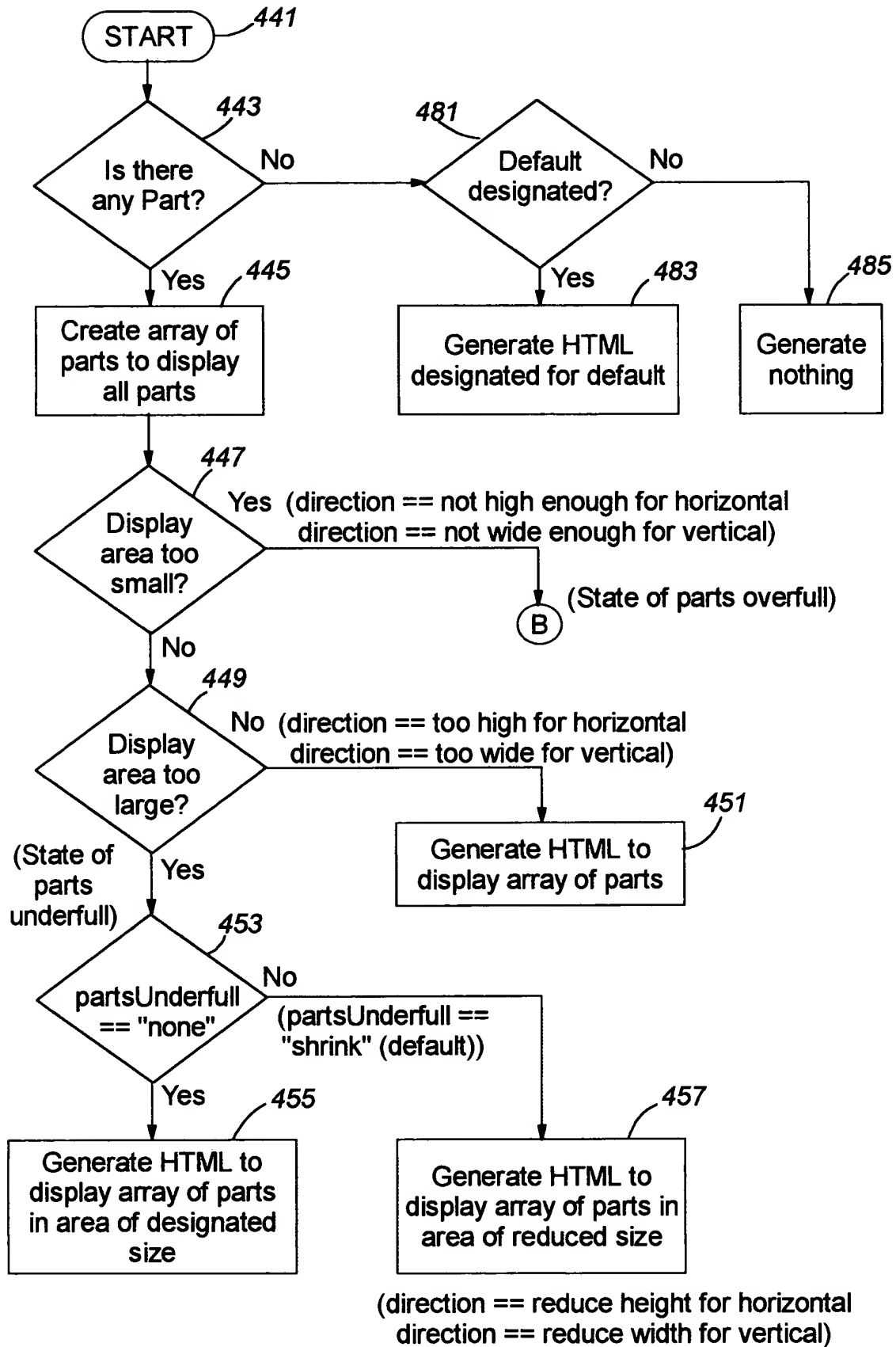
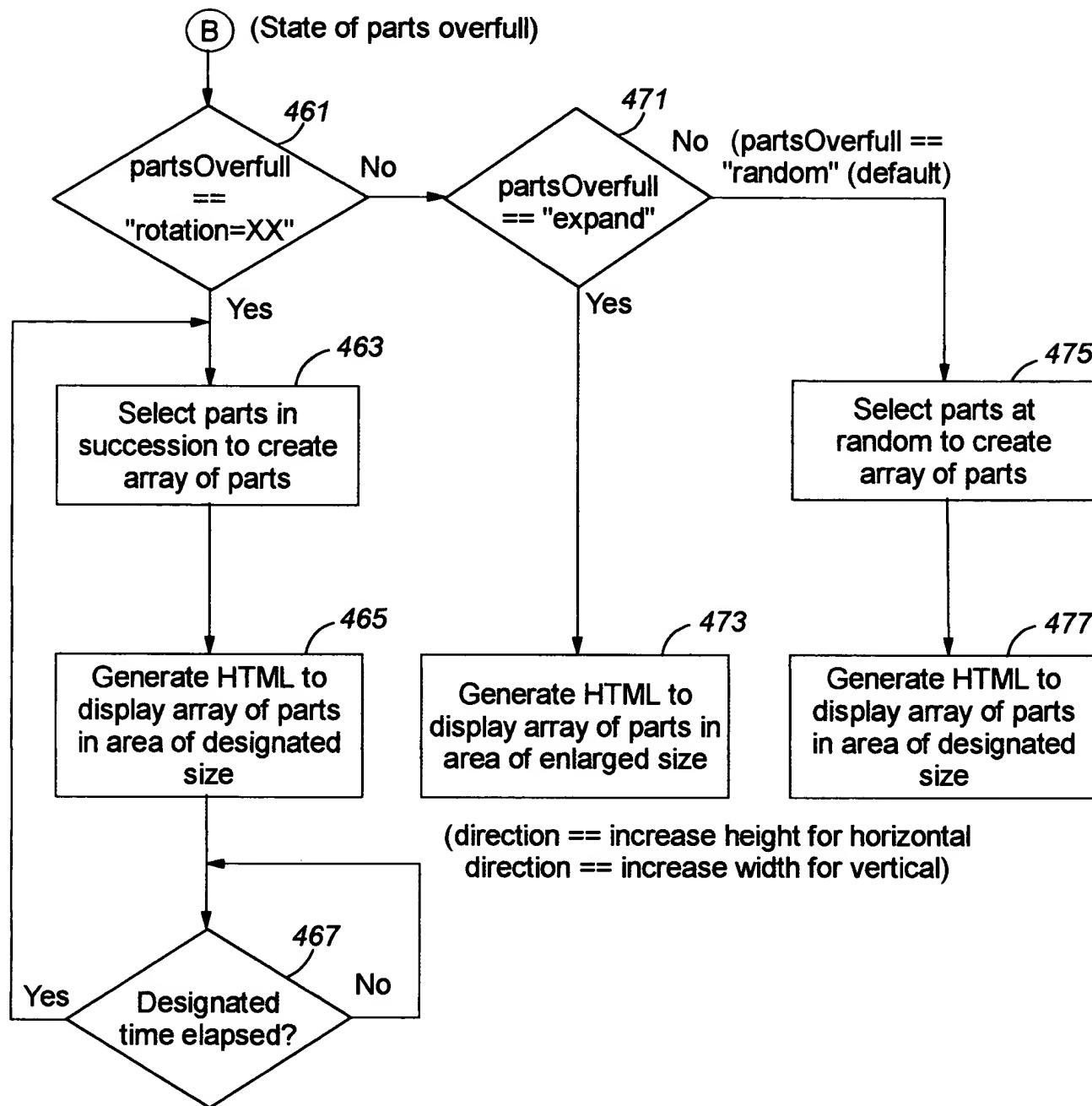


FIG. 32

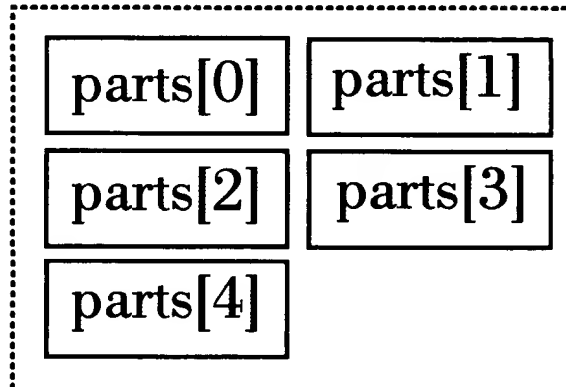


## FIG. 33

Create array of parts to display all parts

parts[0...4]

direction == horizontal



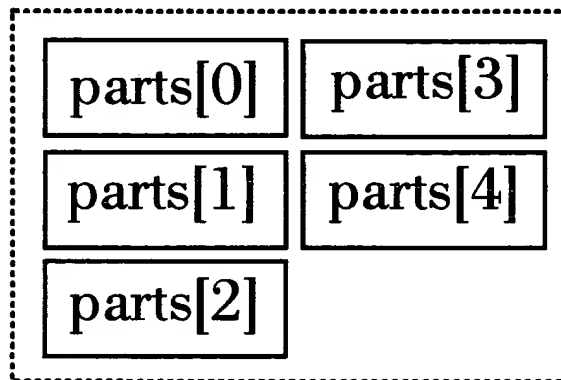
Parts arrangement

(0,0) = parts[0]; (0,1) = parts[1];

(1,0) = parts[2]; (1,1) = parts[3];

(2,0) = parts[4];

direction == vertical



Parts arrangement

(0,0) = parts[0]; (0,1) = parts[3];

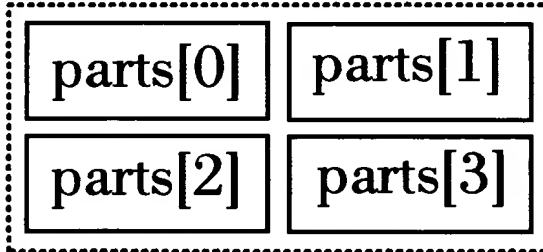
(1,0) = parts[1]; (1,1) = parts[4];

(2,0) = parts[2];

FIG. 34

Select parts in succession and create array of parts  
parts[0...4]

Case of direction == horizontal

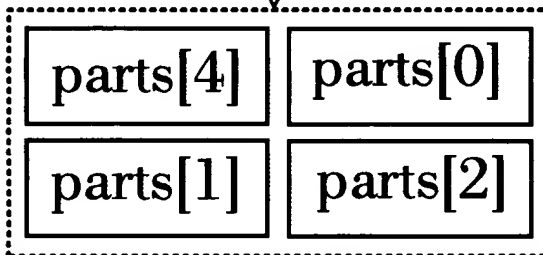


Parts arrangement

(0,0) = parts[0]; (0,1) = parts[1];

(1,0) = parts[2]; (1,1) = parts[3];

↓ After designated length of time



Parts arrangement

(0,0) = parts[4]; (0,1) = parts[0];

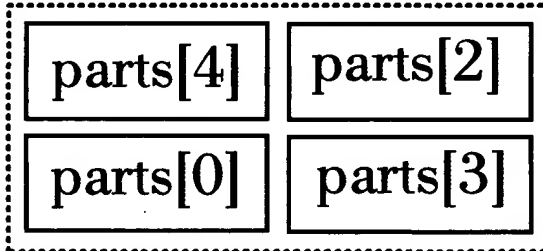
(1,0) = parts[1]; (1,1) = parts[2];

FIG. 35

Select parts at random and create array of parts  
parts[0...4]

Select at random in sequence of parts[4], parts[2], parts[0], parts[3] and [arts[1]

Case of direction = horizontal



Parts arrangement

(0,0) = parts[4]; (0,1) = parts[2];

(1,0) = parts[0]; (1,1) = parts[3];



FIG. 36

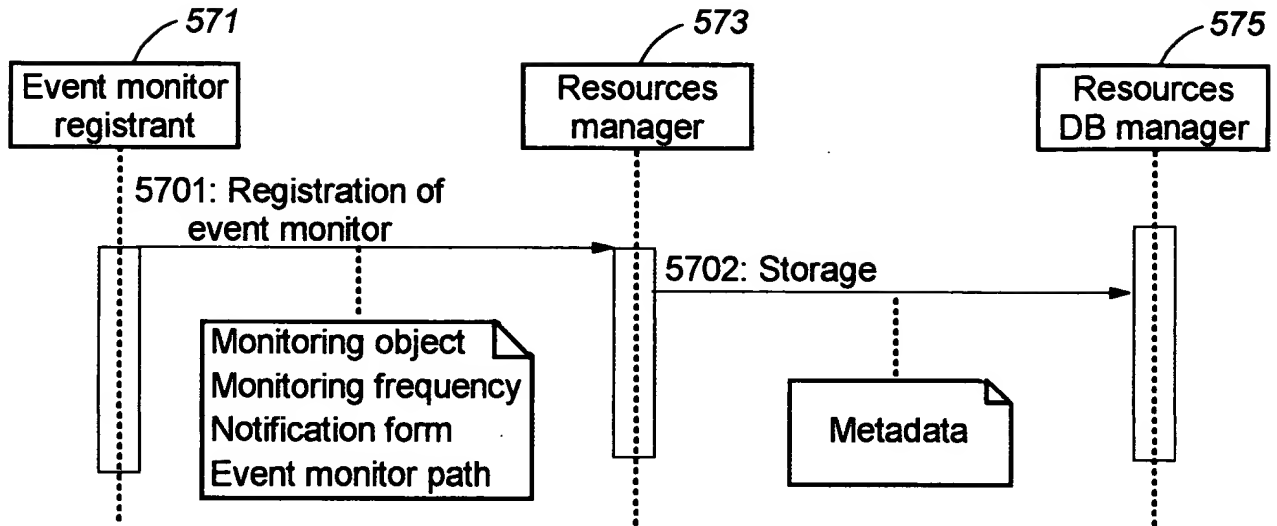


FIG. 37

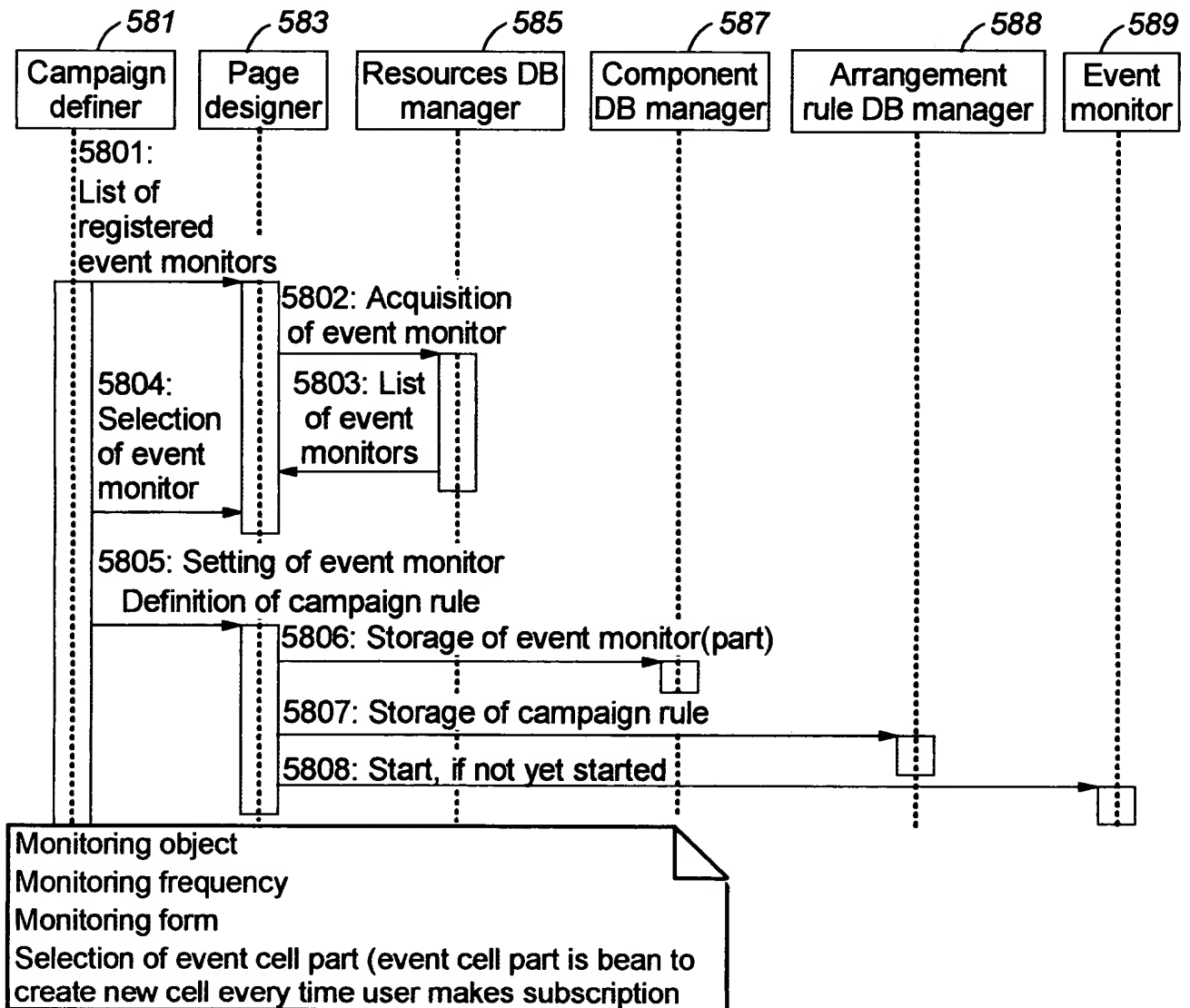


FIG. 38

731 Part type	721 Part ID	723 Part display area name	725 Page template ID	727 START	728 END	729 Publish	733 Event flag	735 Cell part ID
Banner	0001	product_ad	1001	1999-01-01 0:00	1999-07-01 0:00	1	1	2001
Banner	0002	product_ad	1002	1999-07-01 0:00	2000-01-01 0:00	1	1	2001
Telop	0003	product_inf	1003	1999-08-01 4:00	1999-09-20 23:00	0	0	2001
Event	0004						1	2003
.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.

720  
Arrangement rule DB

FIG. 40

User ID	Cookie	E-mail address	User profile

720  
User management DB

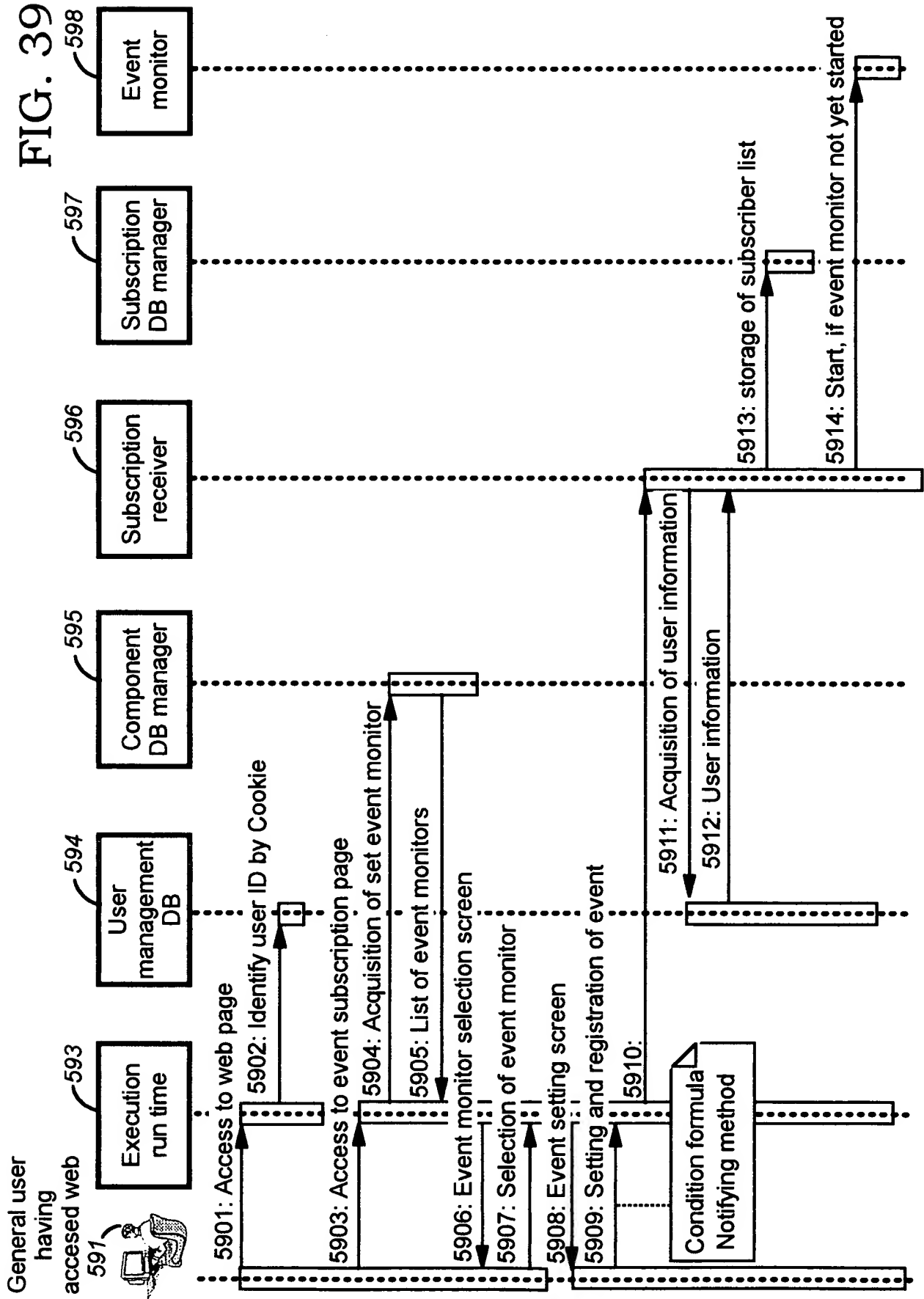
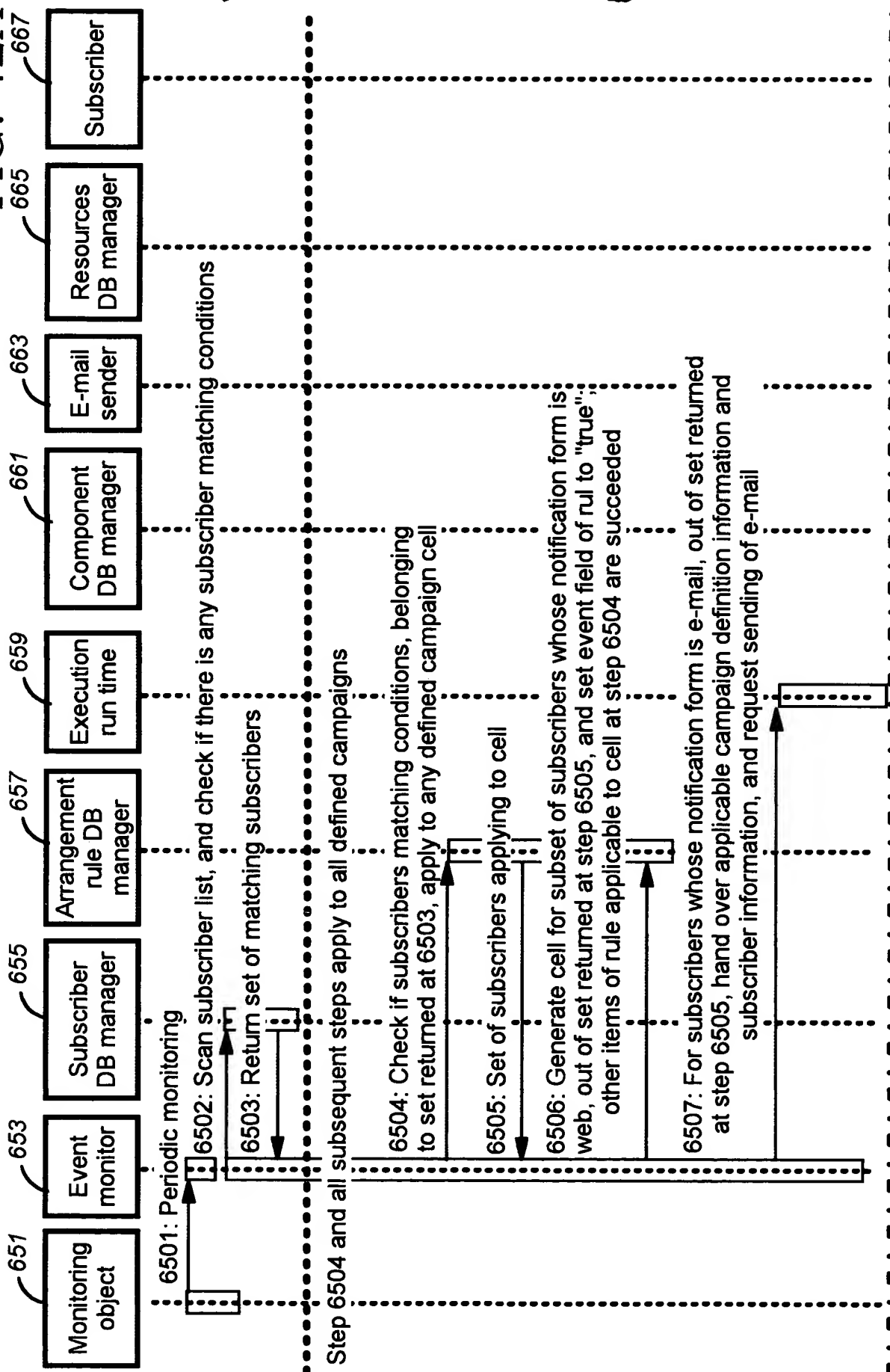


FIG. 41

751	753	755	757	758	759
Subscription ID	User ID	Part ID	Condition formula	Notification form	Campaign flag

750  
Subscription DB

FIG. 42A



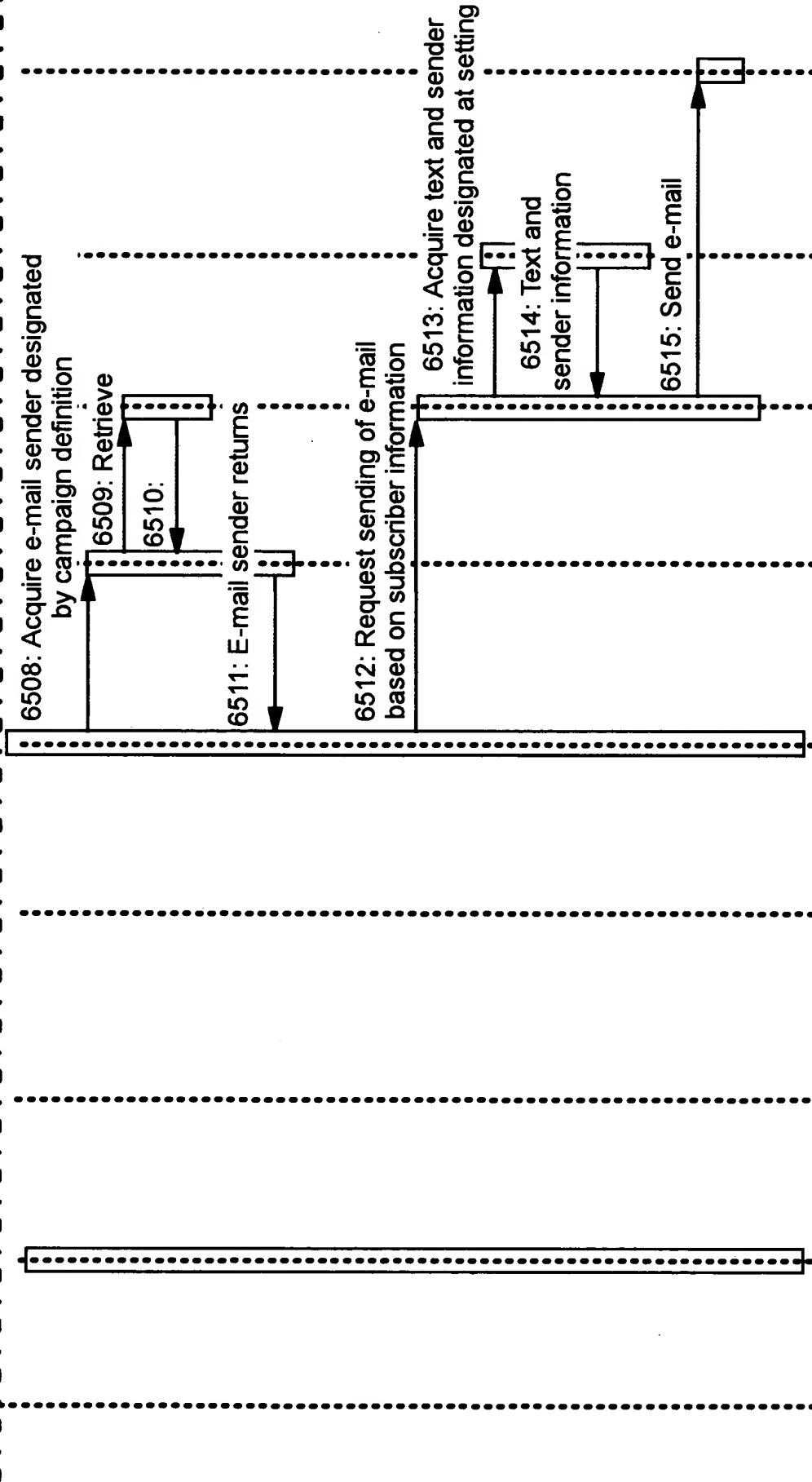


FIG. 43

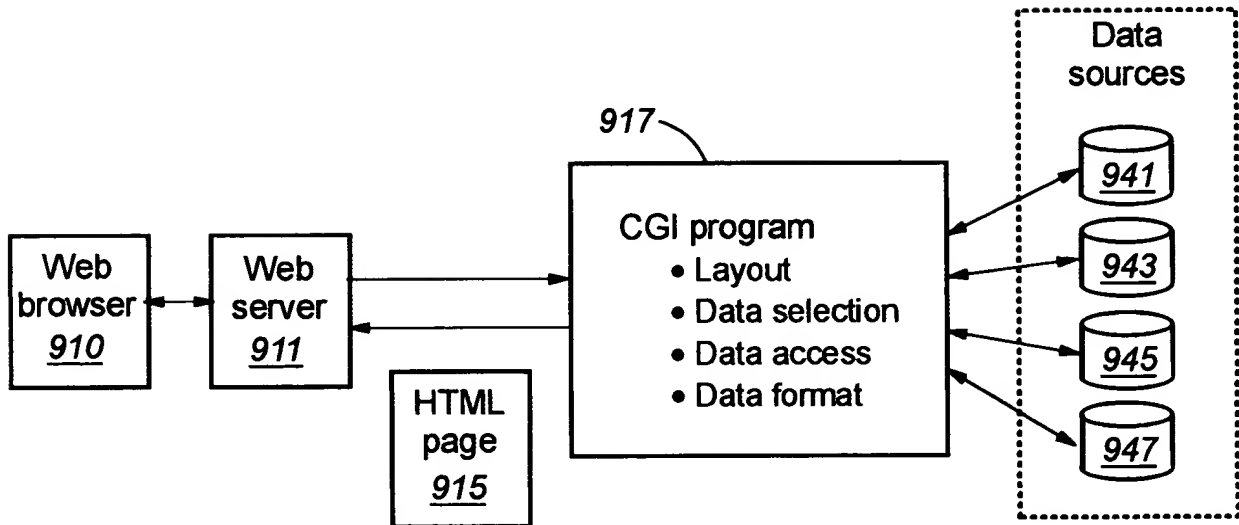


FIG. 44

